

The world's favourite children's magazine



NATIONAL  
GEOGRAPHIC



**FREE  
DOOR  
HANGER!**



# KIDS

## AWESOME ORANGUTANS!



**FANCY A  
CUPPA?  
WE VISIT A  
TEA FARM!**



**216 PRIZES  
INSIDE!**



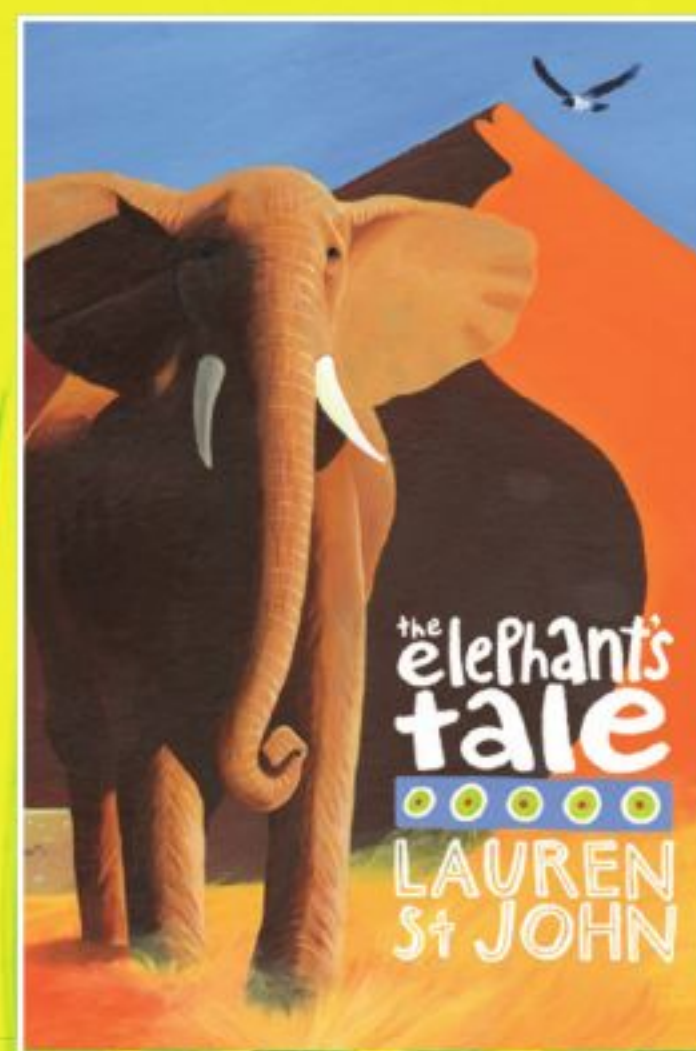
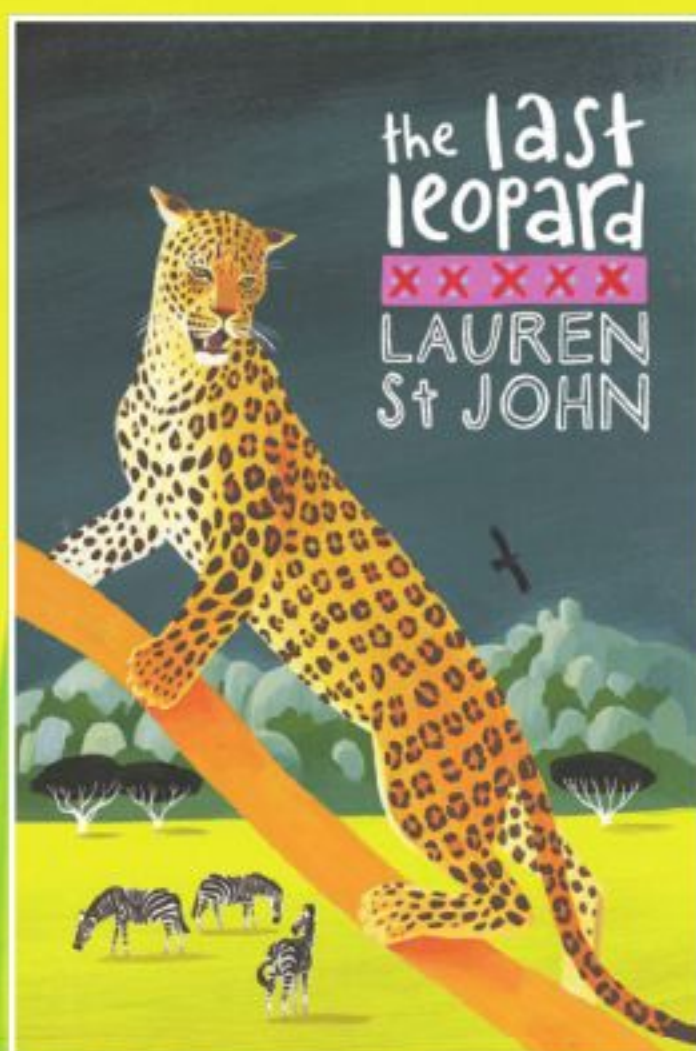
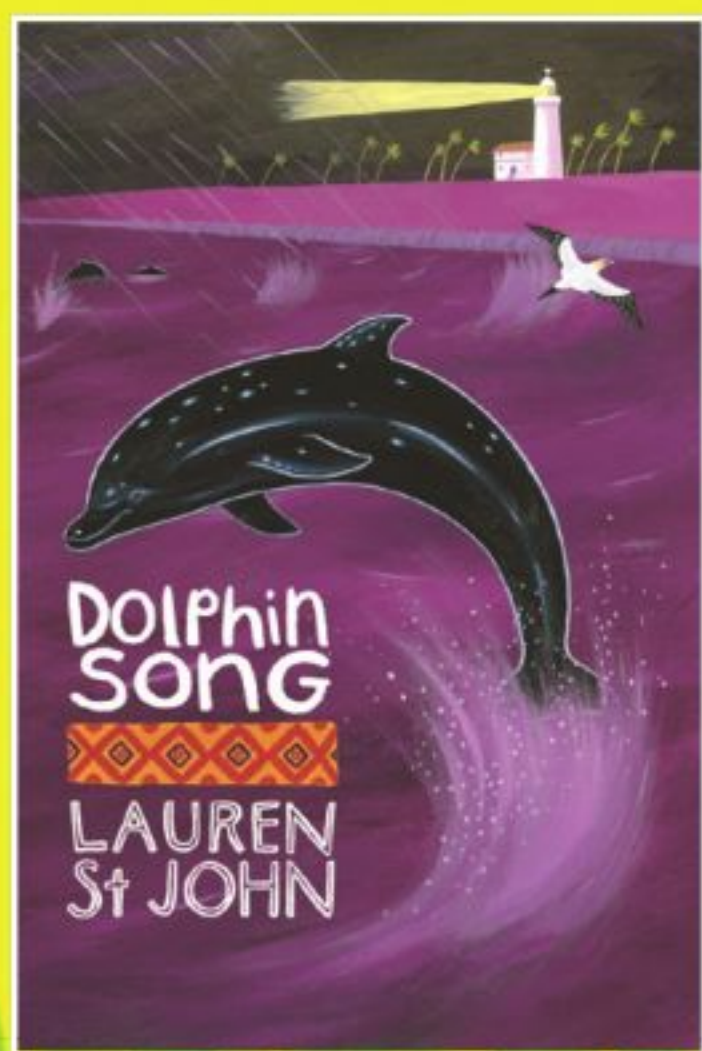
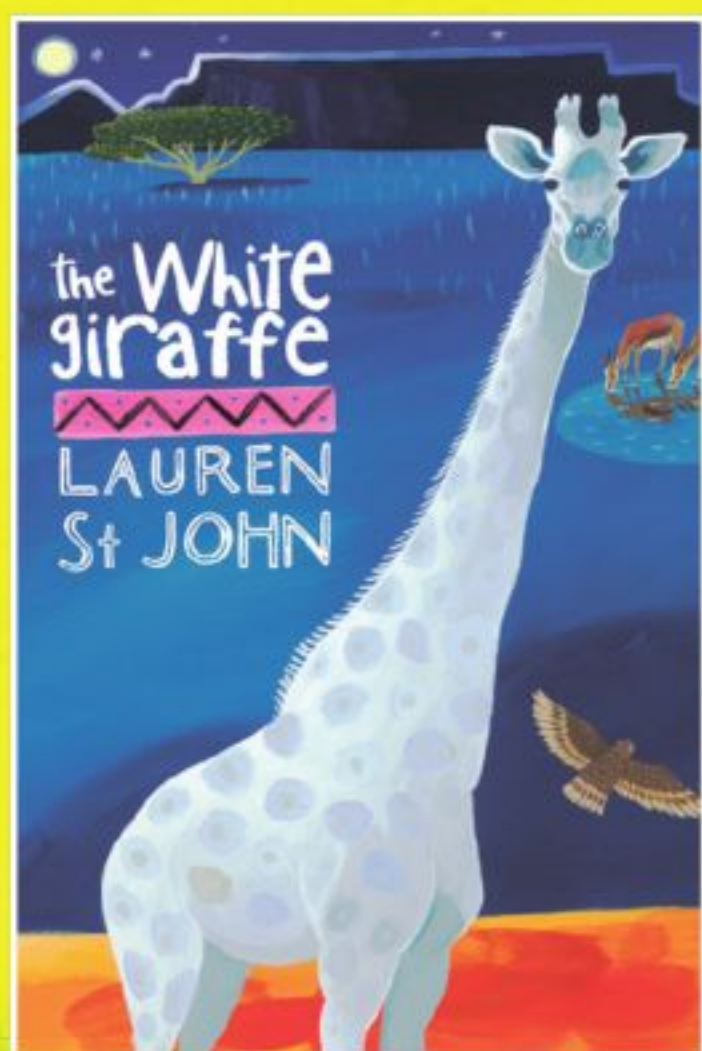
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# NATIONAL GEOGRAPHIC KIDS

**Hi, gang!**

Welcome to another bumper issue of Nat Geo Kids! Join us as we hang out with some of Southeast Asia's most endangered creatures – the orangutans of Borneo and Sumatra. Find out how YOU can help these incredible animals on page 18.

Also this issue, we head to Malawi in Africa to discover where our cups of tea come from, and we dive into an underwater Mexican cave, coming face to face with an ancient skull!

Enjoy the issue!

See you next month, Tim



Tim

## FREE this issue...



## 6 POSTERS!

Download a QR code scanner from your app store. Then when you see this smartphone in the magazine, scan it for extra content



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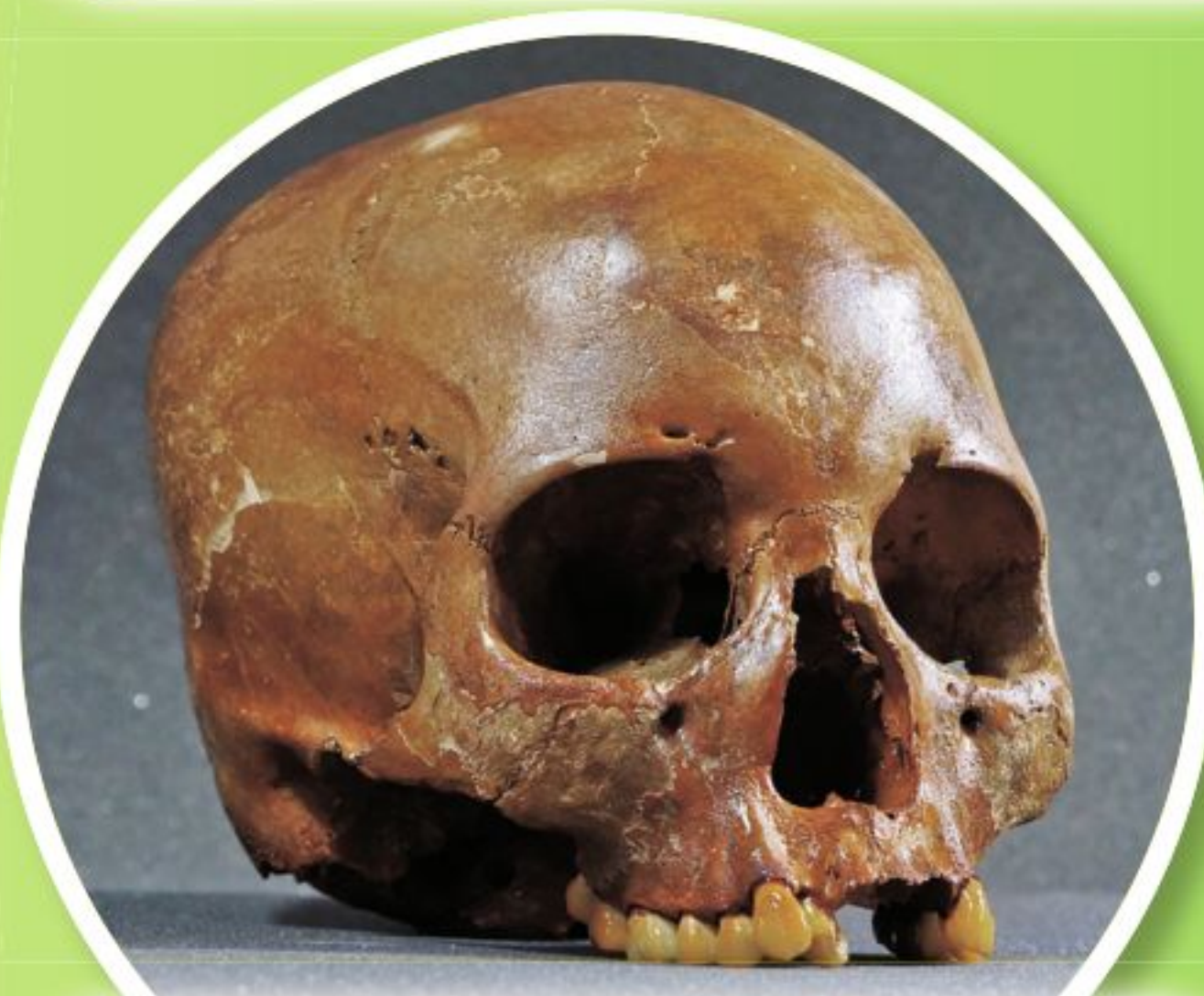
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**Ripley's Believe It or Not!** More wacky facts from Ripley's!



# Inside SCO

**CRAZY  
EVENT**



## PUSHKAR CAMEL FAIR

**18-25  
NOV**

If you want to buy a camel, **Pushkar** is the place to come! Every year, traders gather in this dusty town in **Rajasthan, India**, to trade thousands of camels and other livestock. But it's not just about the cattle – over 400,000 tourists also visit the colourful festival for the **music, moustache competitions, camel races and fairground rides!** And during the full moon, Hindus swim in the sacred waters of **Pushkar Lake** to wash their sins away.

The latest news and  
from ar

Welcoming staff  
answer kids'  
questions!



**COOL  
MUSEUM  
WINS  
AWARD!**



With Georgian ball gowns, over **100,000 insects** and one of the **oldest violins** in the world, it's no wonder **Tullie House** in **Carlisle, Cumbria** was voted winner of this year's **Family Friendly Museum Award!** The 120-year-old building hosts sleepovers for kids and is super-special. Undercover families visited six shortlisted museums before choosing the worthy winner!

## SUPERSONIC CAR REVEALED!



Meet the **Bloodhound** – the most advanced racing car in the world! The supersonic vehicle is designed to reach speeds of 1,000mph (1,609kmph) – smashing the current record of 763mph. Its jet and rocket motors will create more than nine times the power output of *all* the cars in **Formula 1 combined!** High-speed testing up to 800mph will take place next year on a perfectly flat dried-up lakebed in **South Africa**, which has been cleared of rocks by local workers.

### Speedy but safe

With all that power, the car also needs to be incredibly safe, so it has three separate braking systems and seven fire extinguishers! Twelve cameras have also been built into the vehicle, including two inside the cockpit so audiences will see the same view as driver **Andy Green** when he attempts to break the land speed record next year. Cool!

A 2-m-high tail fin keeps the car stable in high speed



10,000 visitors checked out the car for themselves last month when it was on display in London!



At full speed, Bloodhound will cover a mile (1.6km) in 3.6 seconds – that's 4.5 football pitches laid end to end per second. Zoom!

Fancy a **Bloodhound Supersonic Car** lesson in the classroom? Ask your teacher to check out the free educational resources at **bloodhoundssc.com**



# TOP

fantastic facts  
ound the globe...

How much would  
you splash on  
whale sick?!



## WHALE SICK SOLD!

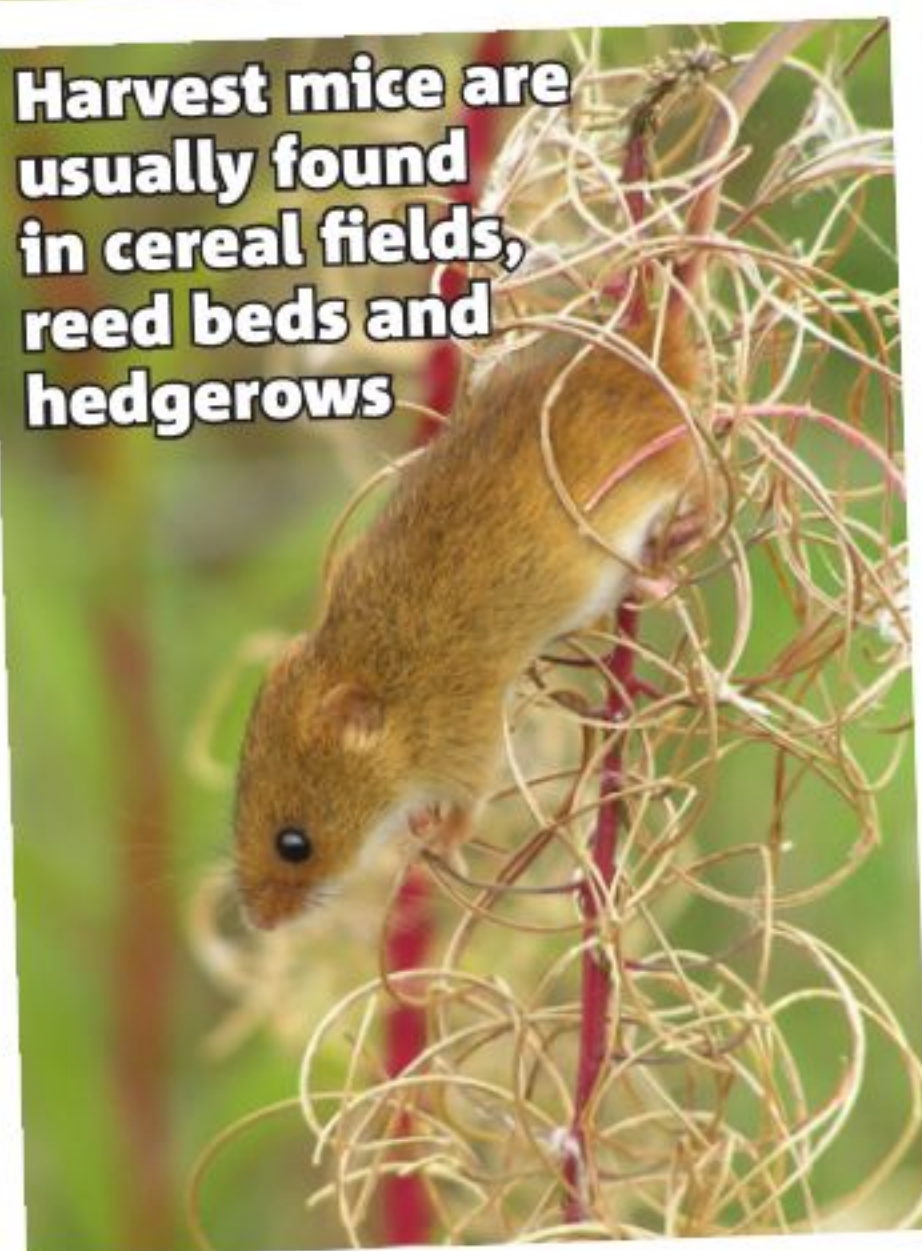


A chunk of solidified **whale puke** has sold at auction for a whopping £11,000! Yes, you read that correctly. Known as **ambergris**, the extremely rare substance is formed inside **sperm whales'** stomachs and can be used as an ingredient in perfumes.

The valuable vomit was discovered by a man walking his dog on a beach in Anglesey, Wales. The reeking rugby-ball-sized lump could have been floating in the sea for decades! The winning bidder was an anonymous man from France.

"We've had lots of unusual items pass through the doors over the years," said auctioneer Adam Partridge, "but this is by far the weirdest!"

Harvest mice are usually found in cereal fields, reed beds and hedgerows



## SNIFFER DOG SAVES MICE!

I THINK  
I SMELL  
MICE!

Could sniffer dogs be the best way to track mice?



A dog is being trained to track down elusive harvest mice – but don't worry, it's not going to eat them! The **People's Trust for Endangered Species** are worried that the tiny rodents are in decline due to changes in farming practices, so they want to find out

how many there are left in the wild. Counting these rare creatures is tricky, however, so researcher **Emily Howard-Williams** and her team are training a **retriever** called **Tui** to detect the scent of the mice. When Tui smells them he'll alert his handler to their presence. Clever!



## 3 FAST FACTS THANKSGIVING

North Americans spend the last Thursday in November (this year it's on the 26th) having a family feast. What's it all about?

**1** **Thanksgiving** is said to date back to 1621, a year after the **Pilgrims** (a religious group from England) first arrived in America. The Pilgrims would have starved if **Native Americans** hadn't taught them local farming techniques – so after their first harvest, they put on a big feast to say 'thanks'.

**2** North Americans don't have to wait until Christmas for a turkey! The bird is served up on Thanksgiving with corn, cranberry sauce and mashed potato or yams – often with marshmallows on top!

**3** Since 1924, Macy's department store in New York has put on a Thanksgiving Day Parade. Millions tune in to watch the floats and giant balloons.

## Make it a DATE

What's going on  
this month?

**5 November**  
**Bonfire Night**  
Make firework pics  
on page 54!



**11 November**  
**Remembrance Day**  
Wear a poppy today.



**16-20 November**  
**Anti-bullying week**  
It's time to make a  
noise about bullying!



**23-29 November**  
**Road Safety Week**  
Get an action pack at  
[roadsafetyweek.org.uk](http://roadsafetyweek.org.uk)



**30 November**  
**St Andrew's Day**  
It's the Scottish  
National Day!





# Weird WORLD!

Check out the planet's strangest pictures...



## Shell suits

British artist **Ann Carrington** loves taking her larger-than-life **Shell Ladies** on "regular outings" along **Margate Beach** in Kent – their next one is on Bonfire Night! Created five years ago, Ann's 2.1-m-tall Victorian and Georgian women are made out of **scallop shells** collected by local fishermen, and each has its own 'personality' and name. Looks like they've still got a long *shell-f* life!



## Rock 'n' roll!

Self-taught woodworker **Nick Pourfard** loves **skateboards** and **guitars** – so much so that he turns used and broken boards *into* guitars! "It takes a couple of weeks to finish each one," he says. "I'll use anywhere between four and 50 boards for each instrument." What a *sound* idea!



## Goats in trees

We've heard of goats scaling mountains and rock faces. But trees?! Well, yes. That's what Morocco's sprightly **goats** get up to, nimbly climbing into the branches of **argan trees** to nibble their tasty berries. It's a sight that's really *goat* us talking here at NG KIDS!



## FIERCE FRUIT

Check out this colossal pumpkin dinosaur, pictured recently in Germany. We reckon it could give a fright with *bite* this Halloween!



## WALKING TALL

Australian high-wire artist Kane Petersen walked across a tightrope 300m above the ground in Melbourne last month – the highest tightrope walk ever made in the Southern Hemisphere!



## MUD MADNESS

Looks like competitors at last month's Mud Madness race in Portadown, Northern Ireland, had fun raising cash for the charity Marie Curie. Talk about dirty work!



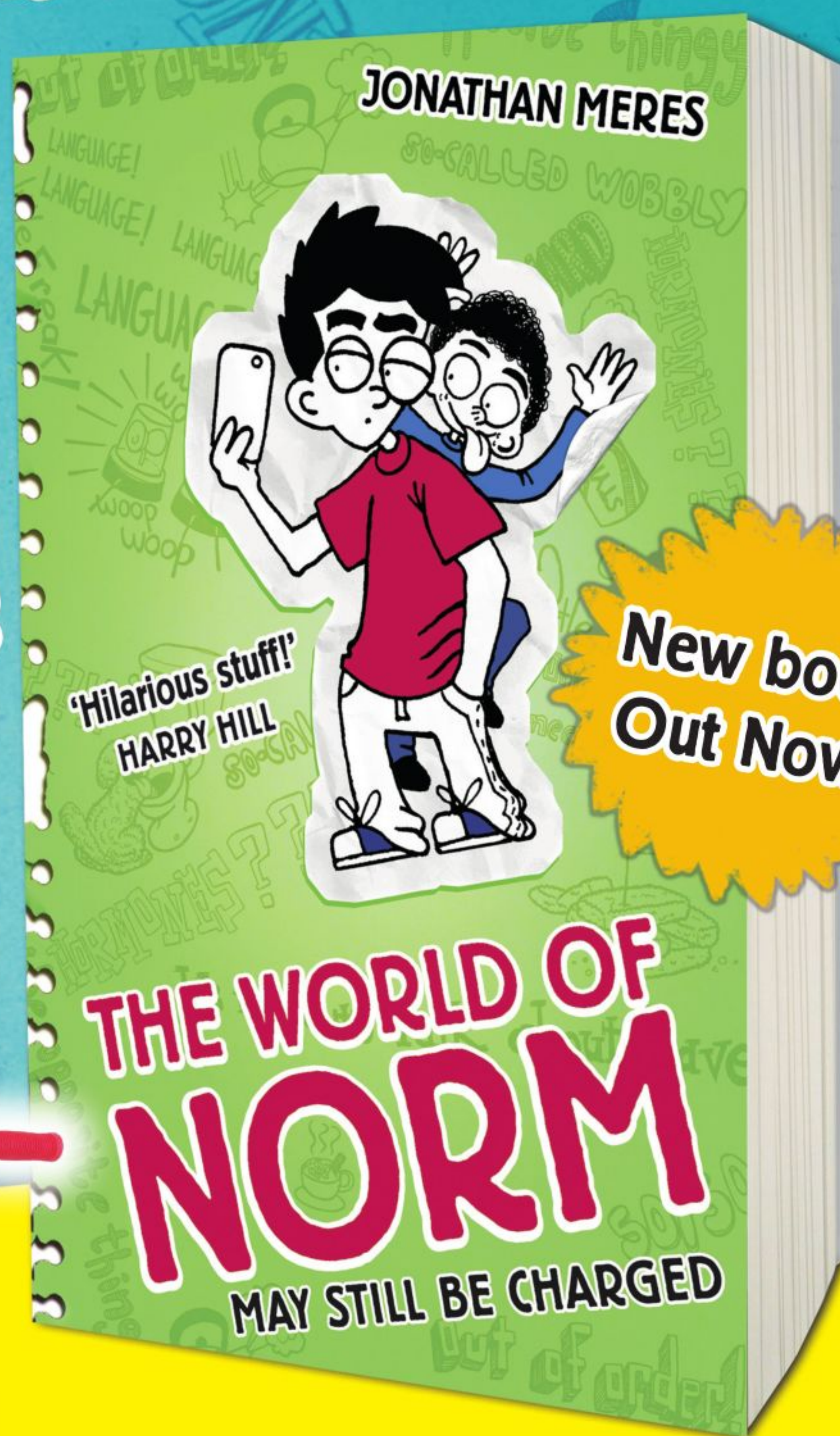


# THE WORLD OF NORM



by JONATHAN MERES

Norm knew it was going to be one of those days when he was grounded before he'd even got up...



**WIN!**  
**WIN! WIN!**  
A **CRISP** scooter,\*  
pads and  
helmet.



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\*Prizes courtesy of [www.greenoversports.com](http://www.greenoversports.com).

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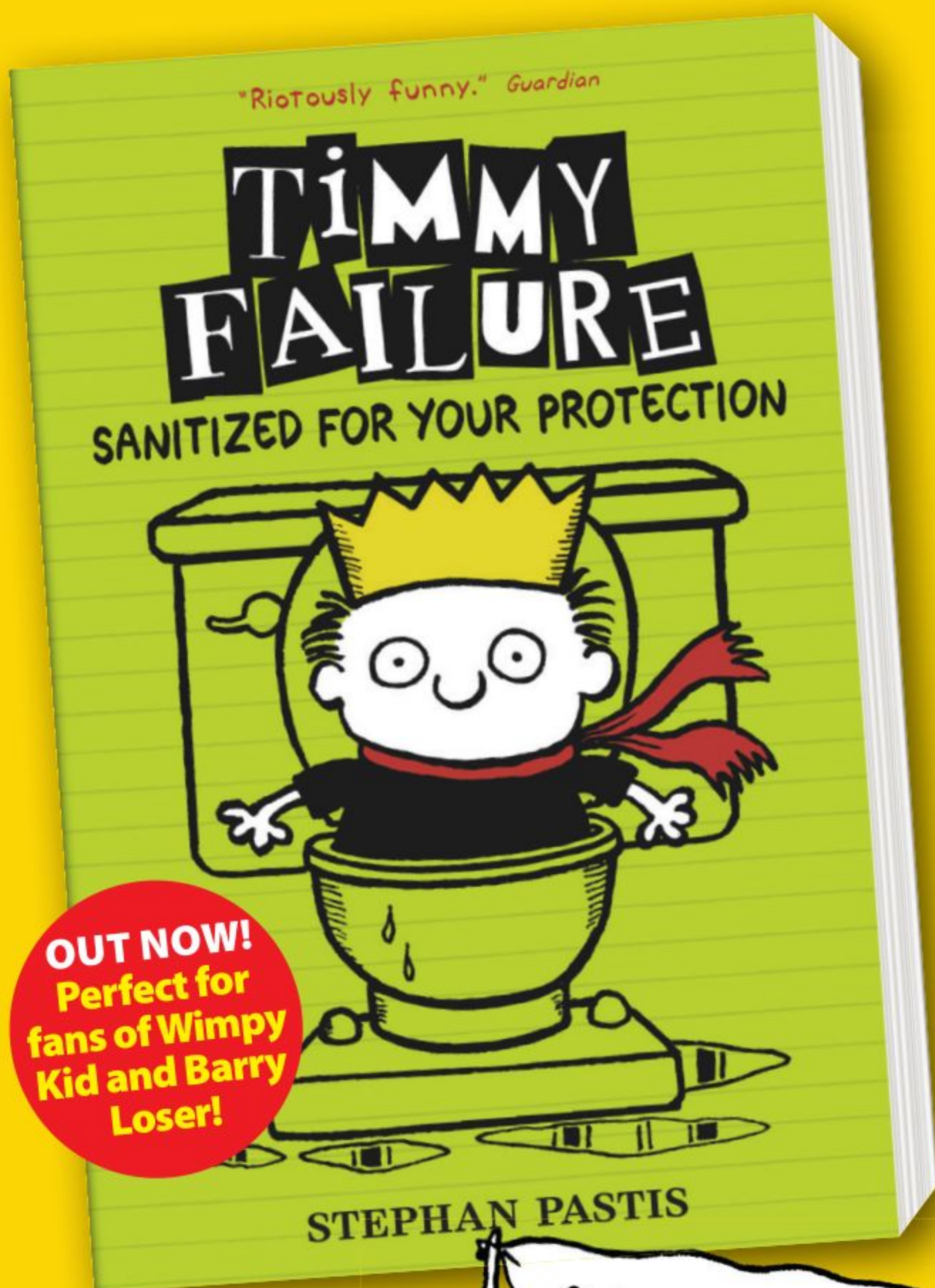
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NGK\_NOV15

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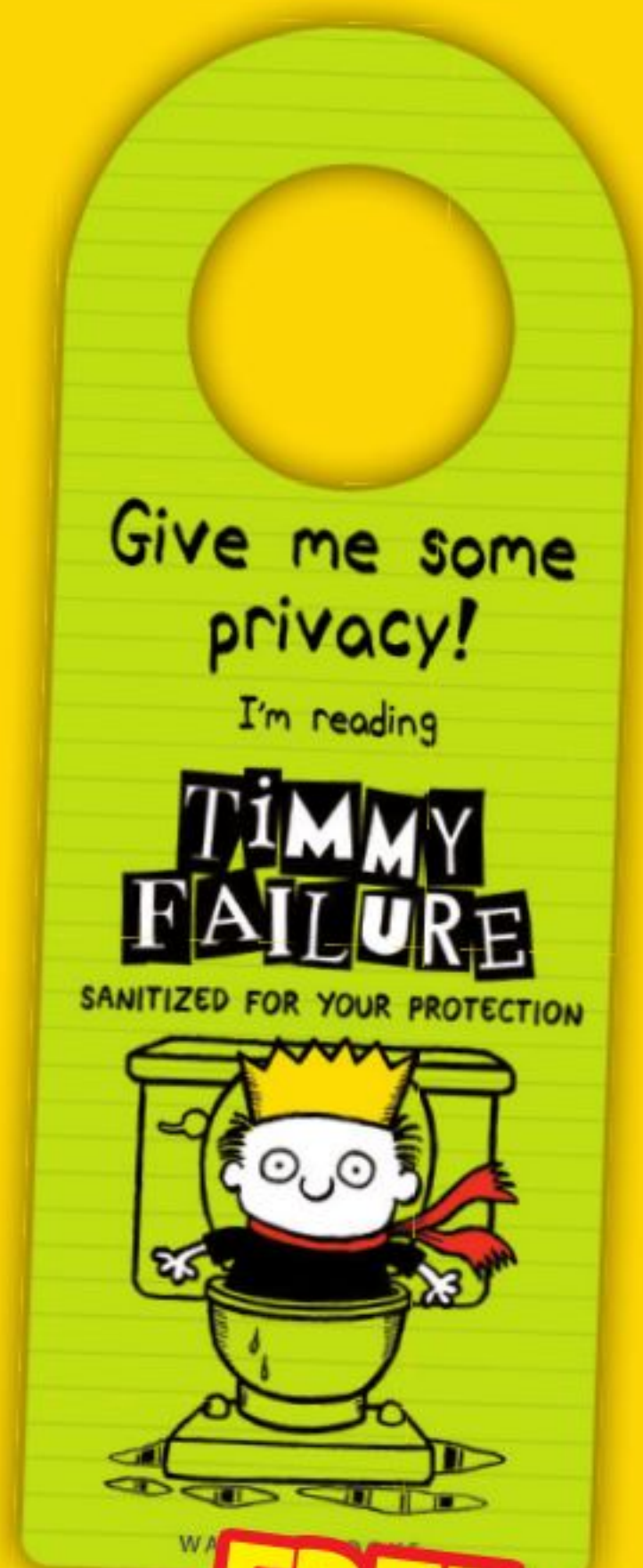
# TIMMY FAILURE RETURNS!

**Behold! You are about to be witnesses to greatness...  
It's the fourth volume of Timmy's memoirs!**



Everyone's favourite kid detective is back! In **Sanitized For Your Protection**, the latest book in cartoonist **Stephan Pastis's** hilarious Timmy Failure series, Timmy is forced to hit the road with his mum, **Doorman Dave**, **Total** the polar bear

and – worst of all – notorious criminal **Molly Moskins** (and her little brother, **Snot**). But Timmy has a mystery to solve, and nothing can stand in his way. If he is to arrest **Corrina Corrina** and solve the **YIP YAP** case, then Timmy, Total and Molly must all go on the run!

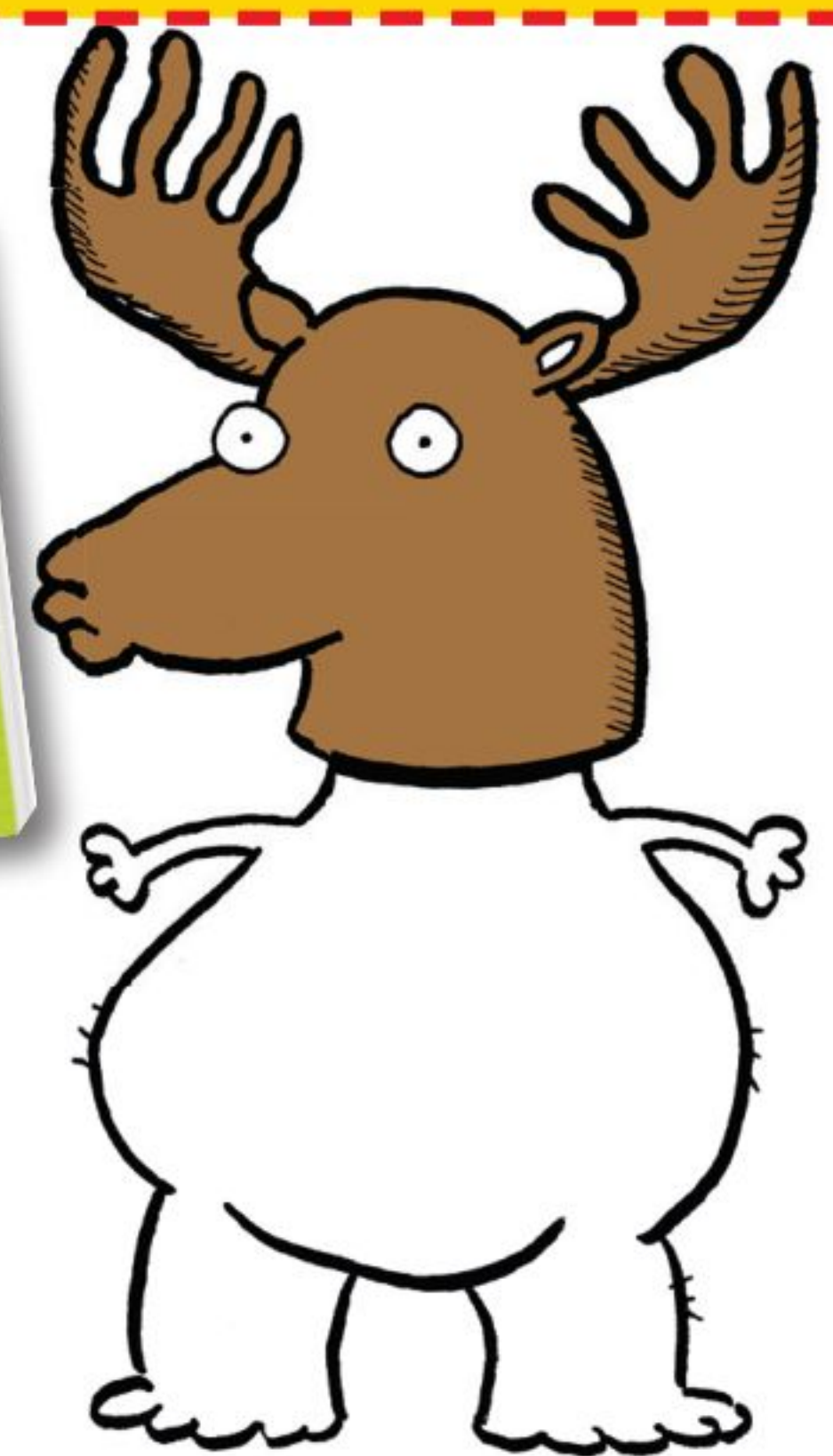
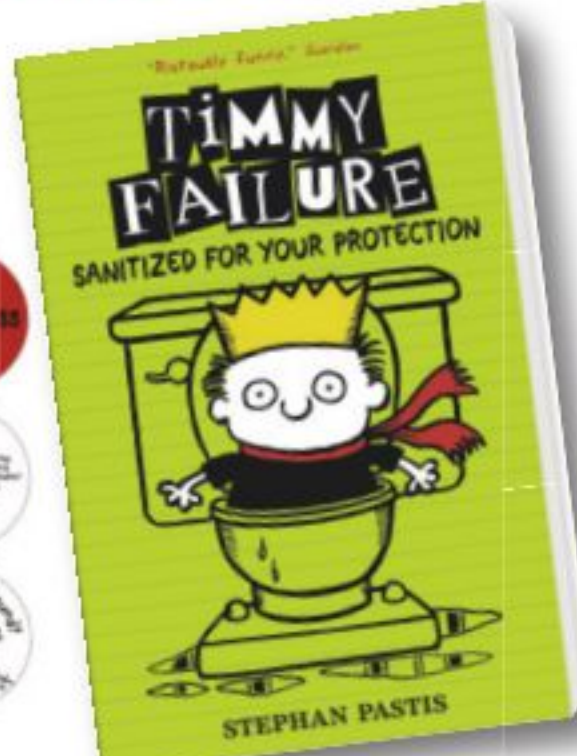


**FREE DOOR HANGER with this issue!**

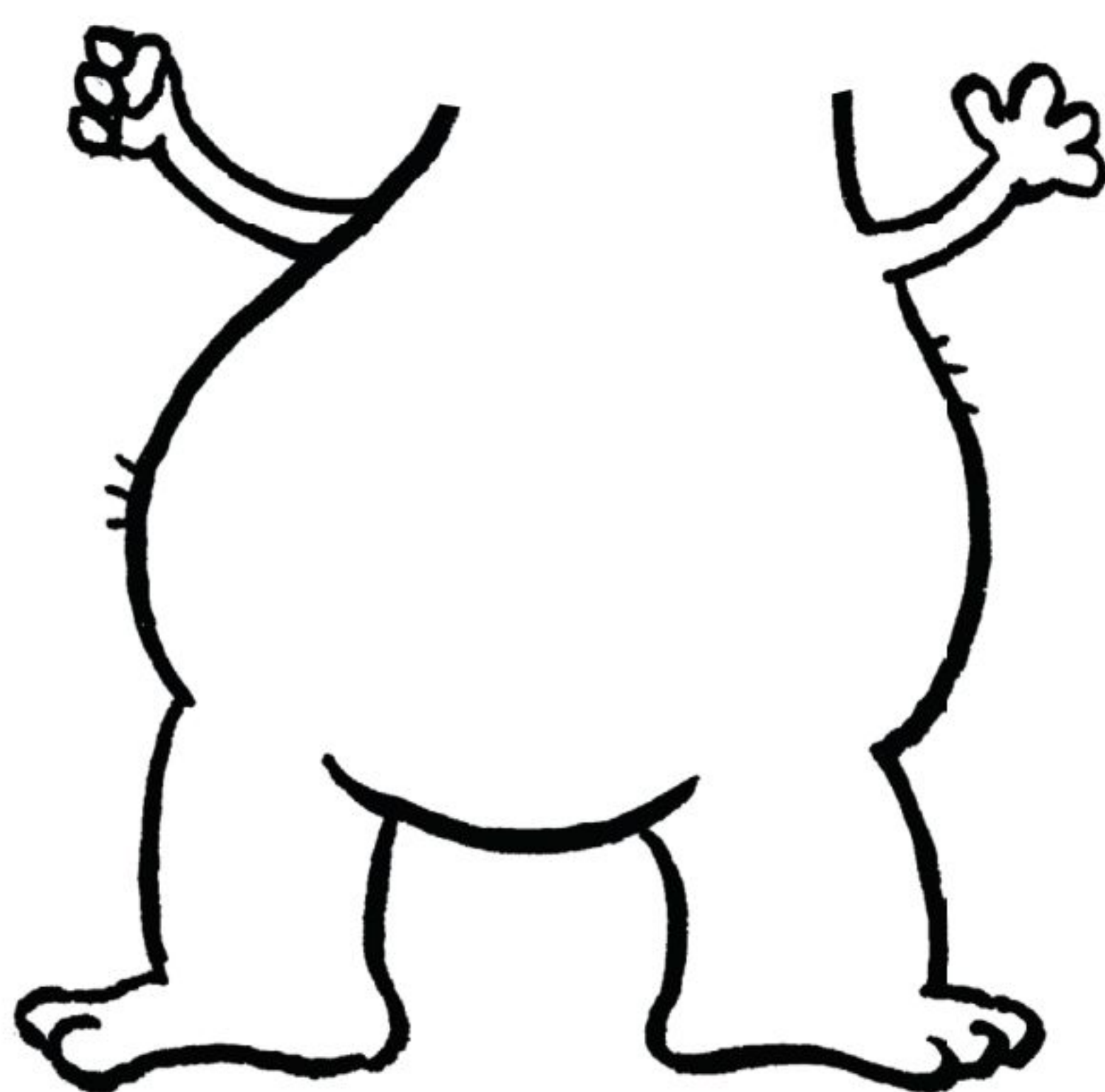
My name is Failure. Timmy Failure. And my detective agency is once again on the verge of global domination...



## Timmy Failure goodies



**Out now!**



When Timmy and his polar bear sidekick Total find themselves on the run in **Sanitized For Your Protection**, Total decides to wear a moose head as a disguise. Ha!

We want YOU to draw a **new animal-head disguise** for Total in this space (left). What creature will you turn him into?

Our **ten** favourite Total disguises will win their creators a copy of **Timmy Failure: Sanitized For Your Protection**, plus **Timmy masks and stickers**. Cool!

To enter, just send us your drawing along with the entry form on page 55. Good luck!

Head to [timmyfailure.com](http://timmyfailure.com) to read an extract, add your doodle to the gallery of greatness and play cool games!





This month's most awesome events,  
movies and books...

# WHAT'S UP?!

## Children in Need

★ The biggest names in music and entertainment are joining forces for the annual **BBC Children in Need Appeal Show** extravaganza! The glittering night in November will feature famous guests and show-stopping performances – but we can't tell you exactly who or what will be happening yet 'cause it's all TOP SECRET! The terrific TV fundraiser will help raise money for disadvantaged children across the UK.

● Tune in to **BBC One** on **Friday 13 November!** Check out [bbc.co.uk/Pudsey](http://bbc.co.uk/Pudsey) to find out more.



This year, celebs are dressing as their childhood heroes for Children in Need!

## SPOT THE DIFFERENCE

Can you find five differences between these pictures of presenter **Dermot O'Leary** dressed as his hero, Arctic Explorer **Sir Ernest Shackleton**? Answers on page 56.



Dick, Dom and Pudsey join kids from Trafalgar Junior School, Twickenham in their fundraising campaign!

## Get involved!

Want to help out? You and your mates can sign up to be **Champions of Change** for **Children in Need**, and then plan and run your own fun events to raise money at your school. Will you organise a **bake sale**, **karaoke competition**, **spelling bee**, **sponsored space-hopper race** or a **mad hair day**? To take

part, ask your teacher to register your school at [bbcchildreninneed.co.uk/championsofchange](http://bbcchildreninneed.co.uk/championsofchange) – you'll get a fundraising pack with loads of ideas and a **reward pack** from their school's partner Lloyds Bank!





Despite her life in the limelight, in some ways Malala is a typical teen!



## He Named Me Malala

★ This inspirational, moving documentary follows schoolgirl, activist and Nobel Peace Prize winner **Malala Yousafzai** as she juggles homework and family life with giving speeches to world leaders!

Malala, from Pakistan, was shot in the head by terrorists at the age of 15, just for going to school. She survived and now she and her lovely dad campaign for the rights of girls all over the world to get an education. Go, Malala!

● In cinemas 6 November. Cert PG.

Get up close to animals this November!



## National Pet Show

★ Pet mad? Then this is the event is for you! See cute chinchillas, peculiar piranhas and cuddly ponies, plus hundreds more amazing animals at this massive pet show in Birmingham. Learn how to train **naughty dogs**, watch incredible **show-jumping bunnies** and get on board the **ZooBus** to hear talks from **animal experts** about freaky mini-beasts!

● **National Pet Show** is on at **Birmingham NEC** from 7-8 November.

### READER OFFER

National Geographic Kids readers can get **30% off** standard advance\* tickets to the **National Pet Show!** Head to **thenationalpetshow.com** and enter the code **NGKIDS** at checkout to redeem the offer!

● **Advance tickets must be purchased online or via telephone ahead of the show.**



Malala's brilliant film (left) will be kicking off the festival!

## Into Film Festival

★ Free films for *all* kids? Ooh yes please! The **world's biggest youth film festival** returns this November, featuring over 2,700 **free screenings** and **events** around the UK. Immerse yourself in the magical world of film watching and making, with screenings of 150 popular movies, including *Minions*, *Big Hero 6* and *Cinderella*. Wow!

● **The Into Film Festival** takes place from **4-20 November**. Your folks or teachers can book free screenings, talks and workshops at **intofilm.org/festival**



Look out! Hugo's about!

DVD

## Ghostbusters

★ When **Tom** finds a wobbly green ghost in his cellar, he's freaked out! But **Hugo** is harmless – he's just an **ASG** (Averagely Spooky Ghost), and he needs Tom's help! An **AIG** (Ancient Ice Ghost) is spreading an arctic cold over their entire town in the *middle of summer*. Can the pair convince grumpy ghosthunter **Hetty Cuminseed** to teach them the basics of ghost hunting, defeat the evil ice ghost and save the town?

● **Out now on DVD!** Cert PG.



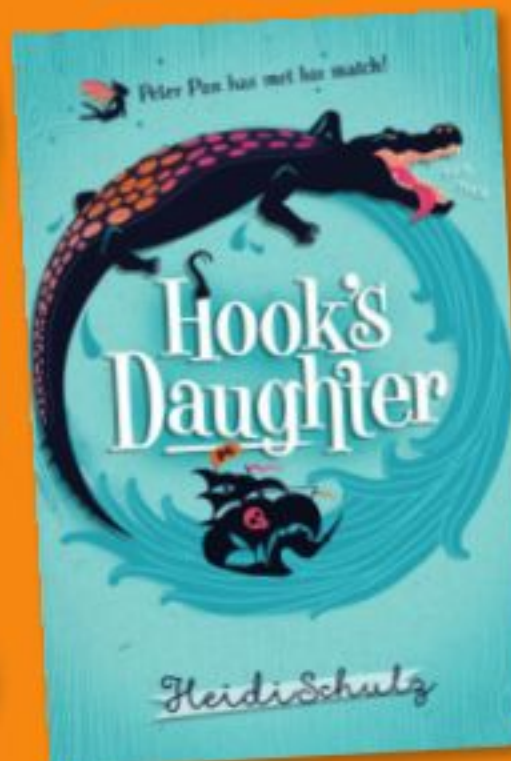
WIN!

We've got five DVDs up for grabs!

Q Unscramble these letters to reveal another word for 'ghost'... **KOPSO**

## YOUR BOOK REVIEWS!

Each month, we're asking **YOU** to review the latest kids' books for us! Get in touch if you'd like to take part...



## Hook's Daughter

★ Jocelyn longs to meet her father, Captain Hook, but he's always away sailing. She wants to be a pirate like him, but her grandfather sends her away to a finishing school

instead, to transform her into a lady. She tries to squeeze into the rules there, but when she hears news of her dad's death, she runs away to sea to take on the crocodile that killed him.

This book has great descriptions and you experience Jocelyn's emotions clearly. I'd recommend it to anyone who seeks adventure, but personally the pirate theme was not for me.

**Nayra Apaza, 10**

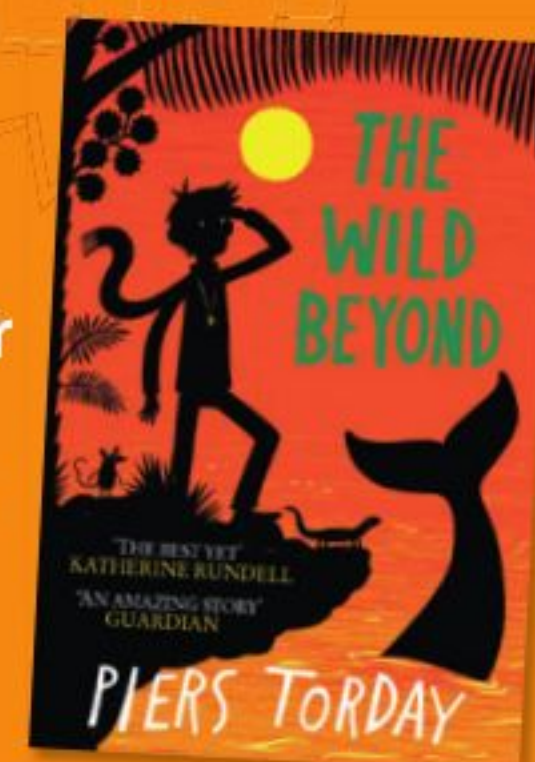
## The Wild Beyond

**Piers Torday**

★ Thirteen-year-old Kester can communicate with animals. When the last whale in the ocean informs him that the key to rebuilding their destroyed planet lies on a faraway island, he embarks on a dangerous journey along with an unlikely assortment of animals. But their mission leads them to something far beyond expectations.

This gripping book had me laughing out loud. Despite being the third in a series, the storyline is easy to pick up and I look forward to reading the other *Last Wild* books.

**Iona Henderson, 13**



Want to win both of these fab fiction reads (above)? Just answer this question!

Q Which of these is a whale?

a) Humpback b) Stickleback c) Flatback

WIN!

## Animalium Books

**Katie Scott and Jenny Broom**

★ Following on from last year's *Animalium* – the illustrated museum within a book – comes the *Animalium Activity Book*, which is bursting with mazes, drawing activities and animal info! And if you can't get enough of the stunning illustrations, check out the *Animalium Poster Book*, which contains 29 pull-out posters to stick up on your walls. Nice!



One reader will win all three *Animalium* books. Two runners-up will bag the *Animalium Activity Book* plus an A3 Poster.

Q Unscramble these letters to reveal a type of sea creature... **LEFILJSHY**

WIN!

Flick to page 55 to enter any of these cool competitions!



# The BIG PICTURE







## Dawn on the Danube



When the **River Danube** flooded into Hungary's **Gemenc Forest**, more than a thousand **great egrets** flocked to the lake to feed on the amphibians and fish stranded there. Photographer **Zsolt Kudich** took this picture in the soft light of dawn when a white-tailed eagle spooked the egrets, sending them into the air.

Zsolt used a slow **shutter speed** to blur their wings and a large **depth of field** to keep the standing egrets in focus. His atmospheric image is a finalist in the **2015 Wildlife Photographer of the Year** competition, run by the **Natural History Museum**, London. The exhibition opens on **16 October**.

Back in 1921, there were just 31 pairs of great egrets left in Hungary – but, as you can see from this pic, they're on the rise!



# AWESOME ORA



Once found in forests across Asia, these endangered apes now only live in patches of forest on just two islands in **Southeast Asia** – **Sumatra** (part of **Indonesia**) and **Borneo** (**Indonesia** and **Malaysia**). Join us as we get up close to these incredible animals...



The dark orange shows pockets of forest where orangutans live

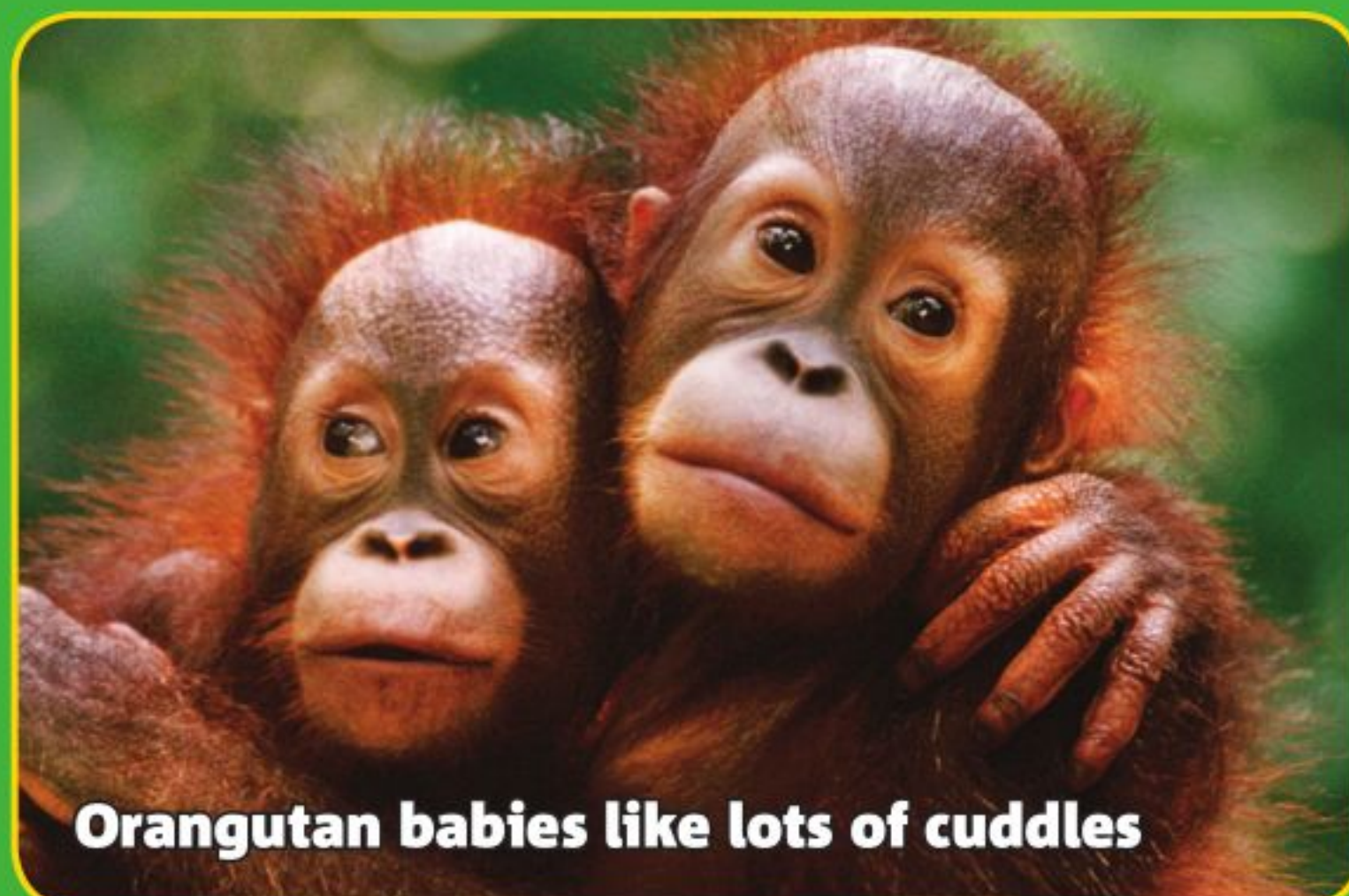


Flexible **feet** work like hands, with the big toe doing the same job as a thumb to grasp objects and branches. Orangutans can even eat with their feet! On the rare occasions they do come down to the ground, they usually walk on all fours.

Sumatran orangutans (right) have longer 'beards', narrower faces and lighter hair than the Bornean species.

Ever wondered why orangutans – the world's only orange ape – have their curious colour? Surprisingly, this ginger tinge helps to **camouflage** them! Muddy water in the swamp forests where they live tends to have an orangey colour, so when sunshine reflects off the surface, it bathes the forest in a dappled orangey light – great for hiding in. Their tree nests also contain orange-coloured dead leaves.

A **baby** is carried around by its mum until the age of two or three – it's completely dependent on her for transport, food, comfort and safety.



Orangutan babies like lots of cuddles

## A lot to learn

Baby orangutans are looked after by their mums for longer than any other animal in the world – and that's because they have so much to learn! In the **seven or eight years** a baby stays by her side, it's taught which food is safe to eat and how to eat it, how to build nests, use tools and climb trees. Females may stay even longer so they can learn how to care for their mum's next baby.

Orangutans can live for up to **50 years** in the wild.

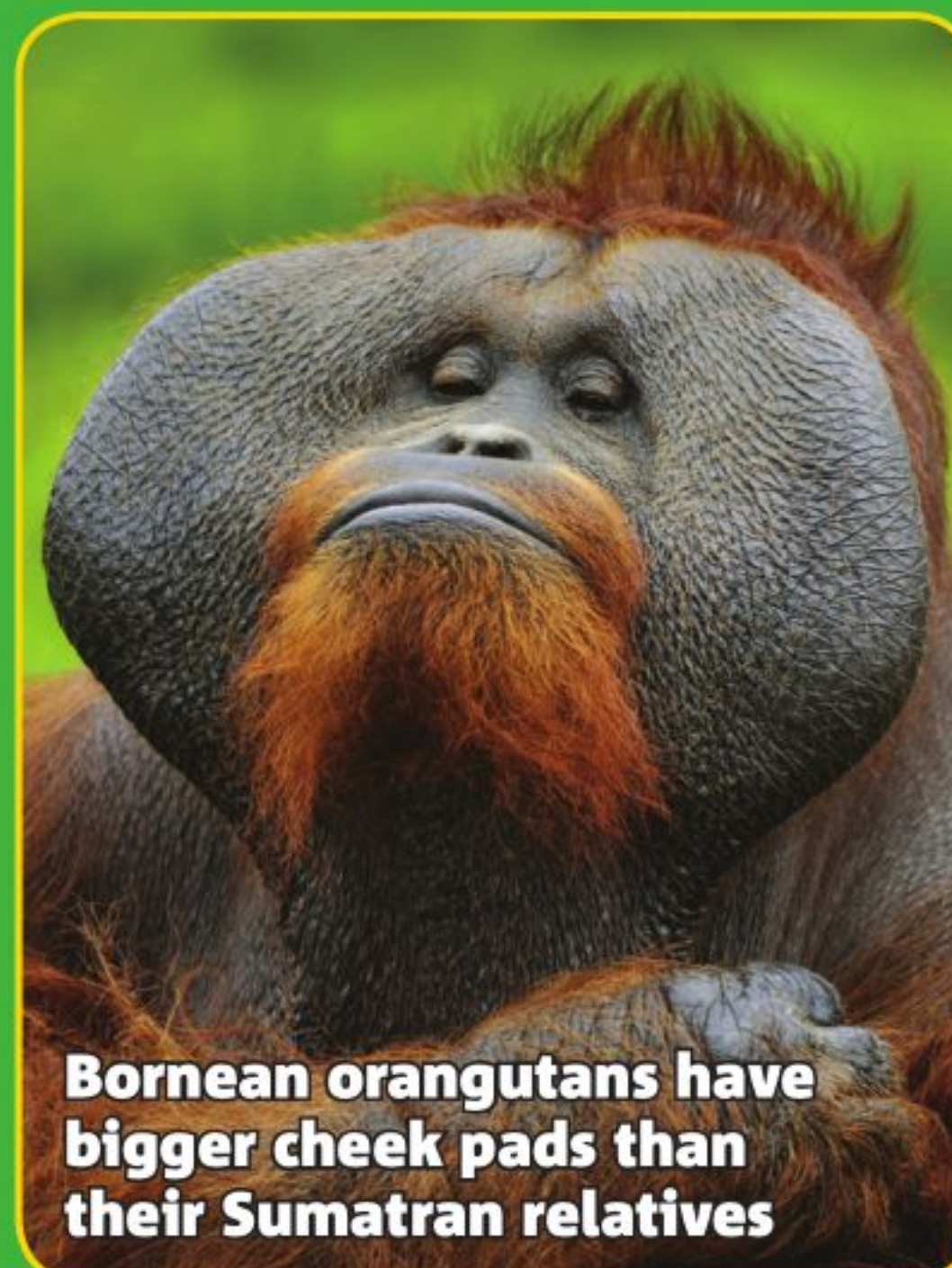


# ORANGUTANS!

Find out how this *tree-mendous* forest-dwelling ape is built for the high life...

Imagine having arms so huge they dangled to the ground! Orangutans' **massive strong arms** are one and a half times longer than their legs and stretch two metres across – that's longer than a bed! These lengthy limbs are perfect for travelling through trees.

**Powerful jaws** allow orangutans to crack, crush and chew nuts and spiny-shelled tropical fruit. Orangutans can also carry objects in their mouths so their limbs are free for climbing. They spend about 60% of the day foraging for food in the trees.



Bornean orangutans have bigger cheek pads than their Sumatran relatives

## Getting cheeky!

Some older males grow big cheek pads, known as **flanges**. Scientists think these mega cheeks work like megaphones, helping to channel the orangutan's calls and make them **louder**. The presence of a flanged male seems to stop other males in the area from growing the peculiar pads. Females seek out the *cheekiest* males to mate with.

Pictures © Getty Images UK.



The baggier the boomier!

## Super sacs!

Adults develop a dangling **throat sac** for making booming noises called '**long calls**'. Mature males have larger throat pouches than females – their sounds can travel for up to **2km** through the forest.

Thanks to **mobile hip joints**, orangutans can easily swivel their legs round to almost any angle and scramble up – or dangle from – trees.

Orangutan means '**person of the forest**' in the local language – nothing to do with the word 'orange'!

Turn the page to find out why orangutans are in trouble...



# LIFE IN THE TREE

Orangutans are the only apes to hang out *full time* in the forest canopy. Read on to learn more about the largest tree-dwelling mammal on Earth...



Orangutans spend a whopping **90%** of their lives in the treetops. They travel through the forests with ease, scrambling up trunks, swinging between branches and using their 33-82kg weight to sway tree branches and cross larger gaps. Orangutans even **sleep** up in the trees! Almost every night, they build a **new nest** from branches and leaves as high as 30m up in the canopy.

## TREE TOOLS

But nests aren't the only things these super-smart apes can construct. When it's raining they fashion large leaves into **umbrellas** or **ponchos**, and smaller leaves are used as **napkins**. Orangutans may sometimes use sticks as **tools** to extract honey, get seeds out of prickly fruits, grab out-of-reach food, probe for insects in termite mounds – or just have a good scratch. **Clever!**

Orangutans' human-like hands are great at gripping sticks to use as tools



Nests are sturdy and well built, so little ones can't slip through the gaps!

## FEELING FRUITY

With a diet of **over 400 foods**, orangutans aren't fussy eaters, but **fruit** is their favourite – it forms about 60% of everything they scoff. All day long they forage in forests, munching on **mangos, lychees, wild figs, jackfruit** and more. When fruit is scarce, they may eat insects, leaves, shoots, eggs and tree bark – they've even been known to nibble mineral-rich soil. **Weird!**

Orangutans even love durian, a stinky fruit whose flesh reeks of raw sewage. Eww!





# EES

Sumatran orangutans are **critically endangered**. It's estimated there are only 6,700 of them left in the wild. Bornean orangutans are also **endangered**, with around 54,000 individuals on the island.

## Orangutans in trouble

Sadly, these endangered apes could be at risk of **extinction**. Their main threat is the **destruction of their habitat**. Orangutans are completely **dependent on trees** for their existence, so when the forests they live in are cleared, they're left without homes, food or protection.



This forest has been burnt down to make way for palm oil plantations

## Horrific habitat loss

In the last 30 years, a shocking **80%** of orangutans' forest habitat has disappeared. **Millions of acres** are logged or destroyed each year to make way for roads, mining and farming. The **oil palm** tree is the biggest crop – the oil from its fruit is used in everything from **biscuits** to **washing powder**. More than half of the palm oil produced in the world comes from Borneo and Sumatra and is grown on land that was once rainforest, teeming with wildlife.

## SAY NO TO PALM OIL!

One way you can help stop the destruction of orangutans' habitat is to **avoid products** with **palm oil** in them. Unfortunately, this is trickier than it sounds because it's in thousands of products! Check items' ingredients before you buy. Some companies use **sustainable** palm oil, which is better.



These palm kernels are grown on land that was once home to orangutans

Seeds from the fruits they eat end up in their poo, so orangutans help the forest to **regenerate** when they go to the loo! By climbing around in the trees they also open up the canopy, allowing light to reach the forest floor, helping new plants to grow.

Unlike other ape species, who hang out in big groups and constantly communicate, orangutans spend their lives alone. The maximum group size is three – a mother and two babies

## Other threats

The **illegal pet trade** can be another problem for orangutans. Infants are stolen from their mothers (who are sometimes killed) and sold to private collectors who want them as pets.

Fire is a major threat, too. Back in 1997-98, forest fires in Borneo raged for

... six months, killing many orangutans. These infernos were made worse because humans had drained the swamp forests.

## Help is at hand

Fortunately, charities such as the **Orangutan Foundation** are helping to protect areas of forest from illegal logging and mining. They're planting new forests, training firefighters and providing fire-fighting equipment. They also rescue orangutans that have been stranded in isolated patches of forest because of habitat destruction. At risk of being killed by farmers, the charities release them into *protected* forests.



Rescued babies have to be taught how to survive in the wild before they're released

Turn the page to find out how YOU can help...



COMPETITION

# GO ORANGE FOR ORANGUTANS!

Want to help save these endangered apes? Pull on an **orange outfit** on **Orange for Orangutans Day** to raise money for the **Orangutan Foundation**!

**ORANGUTAN AWARENESS WEEK TAKES PLACE FROM 9-15 NOVEMBER!**



The **Orangutan Foundation** has been helping these beautiful apes for **25 years**! They work with local people to protect orangutans' tropical forest habitat from destruction, because if the forests aren't safe then neither are the orangutans. They also rescue stranded and captive orangutans and reintroduce them to protected forests where they can live in the wild.

## It's all about orange!

On **11 November**, orangutan fans can raise money for these beautiful apes *and* their rainforest homes by dressing up in **orange**! Go head-to-toe in orange or just wear some orange socks! You could even hold an orange-themed bake sale or bathe in baked beans! Find out more at [tinyurl.com/orangutanweek](http://tinyurl.com/orangutanweek)

## Famous judge!

Your wonderful words will be judged by famous actor and orangutan supporter **Joanna Lumley**! She can't wait to read your entries!



## Creative writing competition!

To celebrate 25 years of orangutan conservation, the **Orangutan Foundation** is running an amazing creative competition with NG KiDS. We want you to help highlight the problems that orangutans and their rainforest homes face through your creative writing!

Using your imagination and descriptive powers, write a **short story or poem**, in no more than **500 words** (there's no minimum length), on the theme of *The Orangutans' World*. If you want, take inspiration from our article or check out all the information at [orangutan.org.uk](http://orangutan.org.uk). Good luck!

**WIN!**

## SCOOT OFF WITH TOP PRIZES!

There are two **age categories** in this competition, with three winners in each category! Take a look at what your words could win you...



### 6-9 YEAR-OLDS

**1st prize** A Skates scooter, two tickets to *Charlie and the Chocolate Factory the Musical*, family tickets to ZSL London or ZSL Whipsnade Zoo, a £50 book voucher from LoveReading4Kids.com, an Orangutan Foundation Junior Membership, an orangutan cuddly toy, a £50 voucher for the Rainforest Cafe and a 2016 Foundation calendar. Plus, your writing will be published on the LoveReading website, the NG KiDS website and the Orangutan Foundation's blog!  
**2nd prize** Zoo tickets, £25 book voucher, Orangutan Foundation Jr. Membership, £20 Rainforest Cafe voucher, cuddly toy and calendar.  
**3rd prize** Zoo tickets, £10 book voucher, Orangutan Foundation Jr. Membership, cuddly toy, £10 Rainforest Cafe voucher and calendar.

### 10-13 YEAR-OLDS

**1st prize** A Skates scooter, Delta Force paintball vouchers for you and TEN friends, family tickets to ZSL London or ZSL Whipsnade Zoo, a £50 book voucher from LoveReading4Kids.com, an Orangutan Foundation Junior Membership, an orangutan cuddly toy, £50 Rainforest Cafe voucher and a 2016 Foundation calendar. Your story will be published on the LoveReading website, the NG KiDS website and the Orangutan Foundation's blog!  
**2nd prize** Paintball vouchers, zoo tickets, £25 book voucher, Orangutan Foundation Jr. Membership, cuddly toy, £20 Rainforest Cafe voucher and calendar.  
**3rd prize** Paintball vouchers, zoo tickets, £10 book voucher, Orangutan Foundation Jr. Membership, cuddly toy, £10 Rainforest Cafe voucher and calendar.

## How to enter!

With your parent or guardian's permission, email your story or poem to [kids@ngkids.co.uk](mailto:kids@ngkids.co.uk) with the subject heading 'The Orangutan's World' or post them to National Geographic Kids, Unit 1.04 Clerkenwell Workshops, 31 Clerkenwell Close, London EC1R 0AT. Please include your name, age, date of birth and email address in the email or on the back of your entry. The closing date is **6 January 2016**! Entries should **NOT** exceed **500 words** and entrants must be aged **6-13**.



# THE FALCON CHRONICLES

The thrilling adventure series from

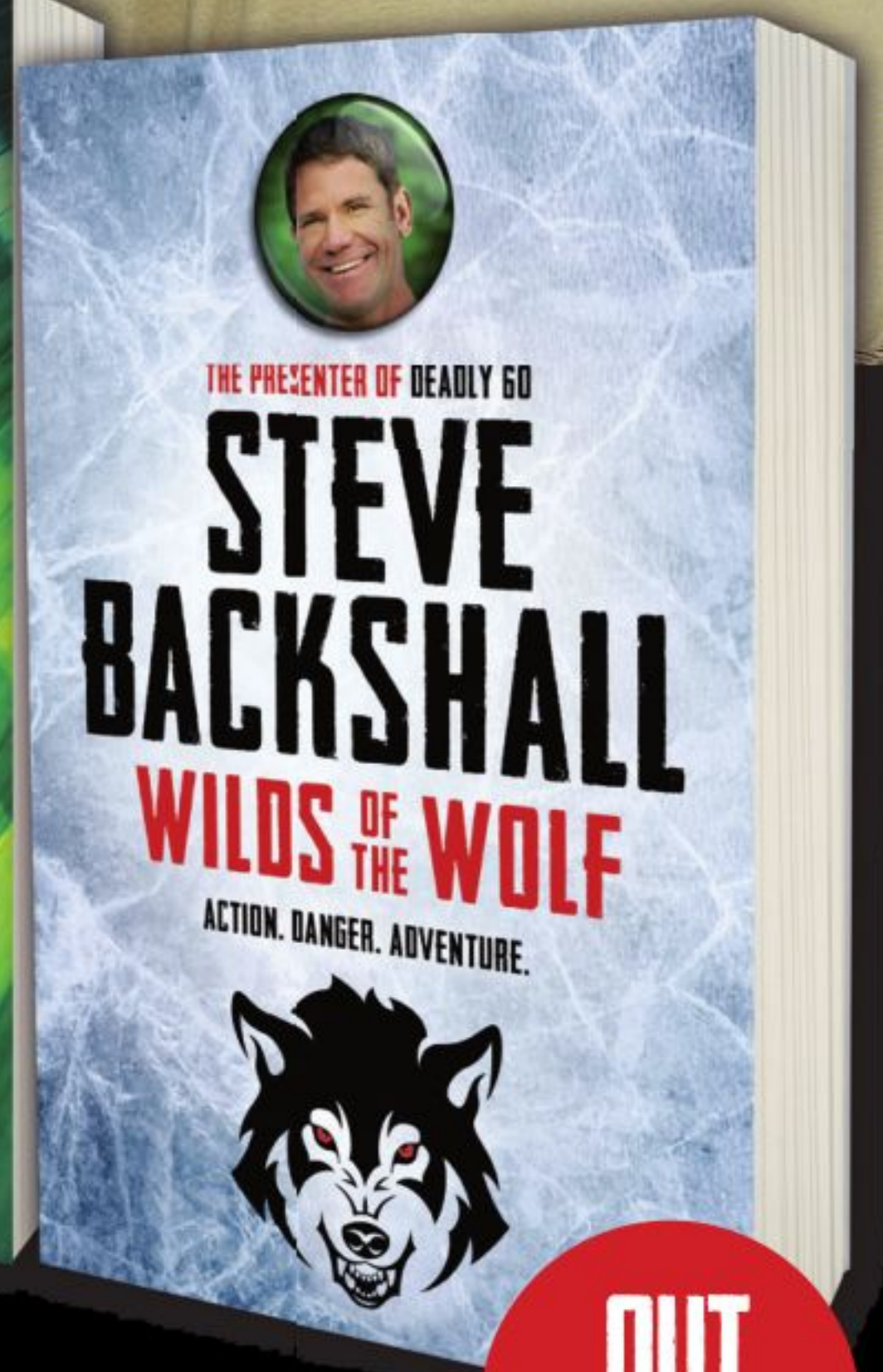
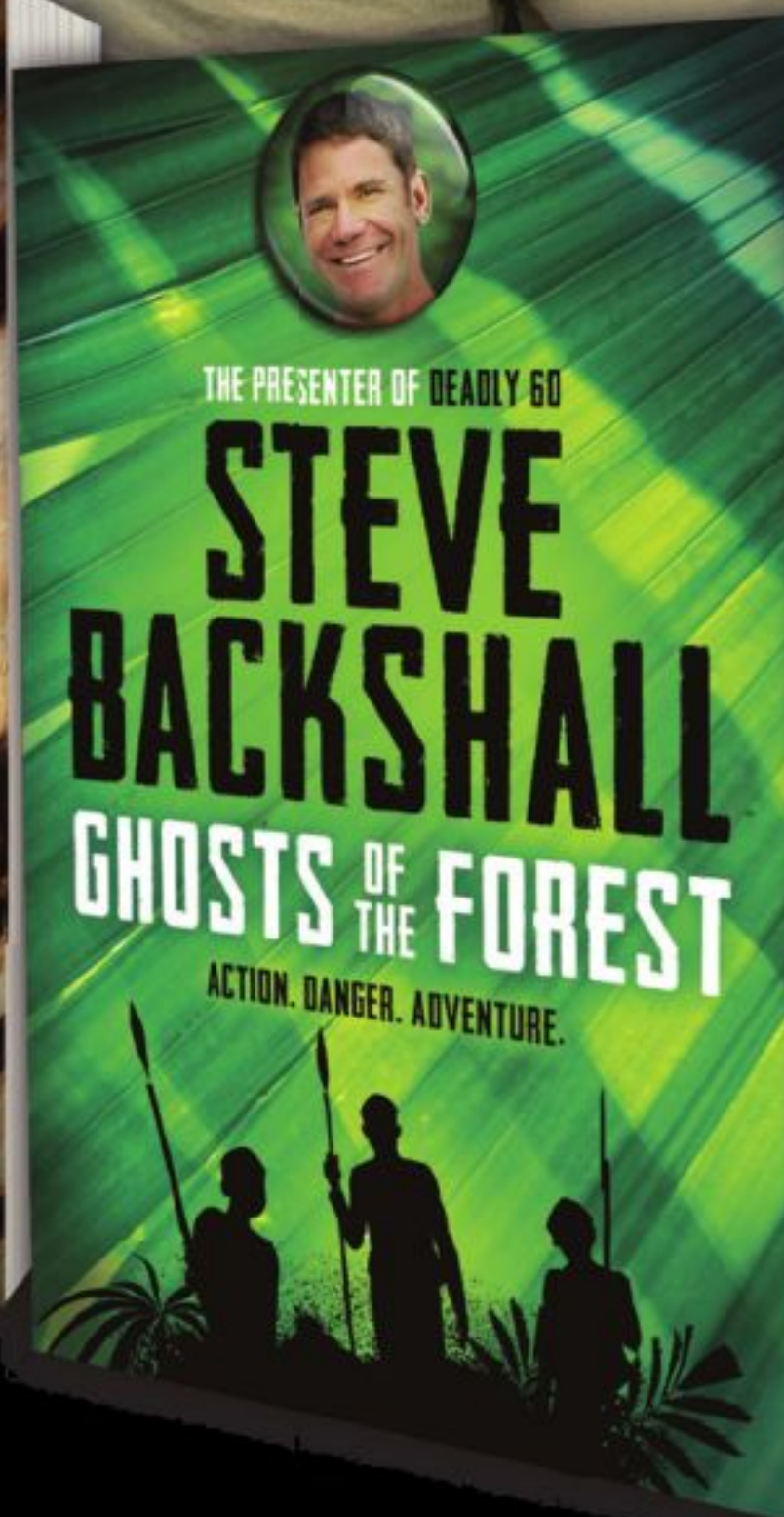
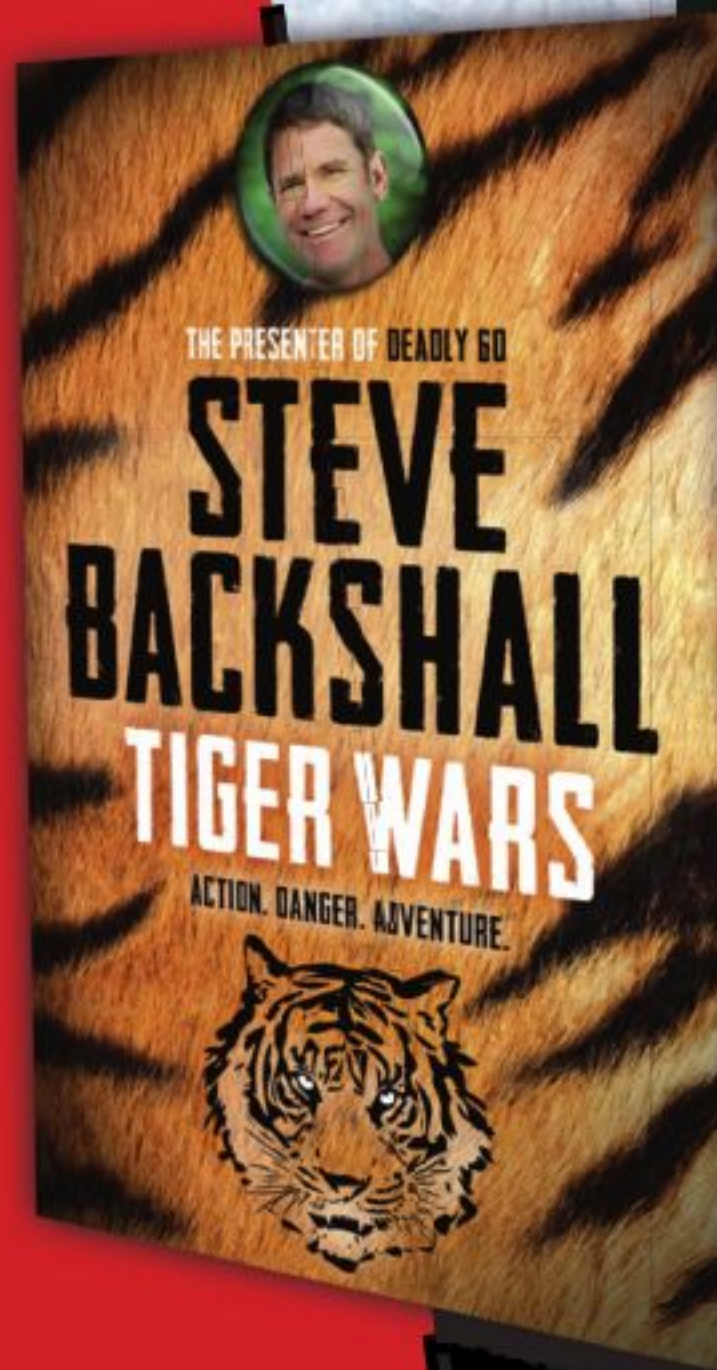
## STEVE BACKSHALL

Steve Backshall has done some **AMAZING** and terrifying things on his adventures to get up close to the most dangerous animals on the planet.

### TRUE OR FALSE?

- ① Steve has been bitten by 3 deadly animals and survived: a caiman crocodile, a shark and a piranha!
- ② Steve has been to every country in the world at least once.
- ③ Steve gained a black belt in judo after spending a year in Japan.
- ④ Steve has adopted 2 pet sloths.
- ⑤ Steve was almost killed by a polar bear in the Arctic.

True: 1, 3, 5 False: 2, 4



OUT  
NOW

## ACTION. DANGER. ADVENTURE

Go to [stevebackshall.com](http://stevebackshall.com) for 2015 tour dates





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# COOL SCHOOL COMPETITION!

Want to scoop some terrific technology for your classroom? Check out our new comp, then show this page to your teacher!

**WIN!**

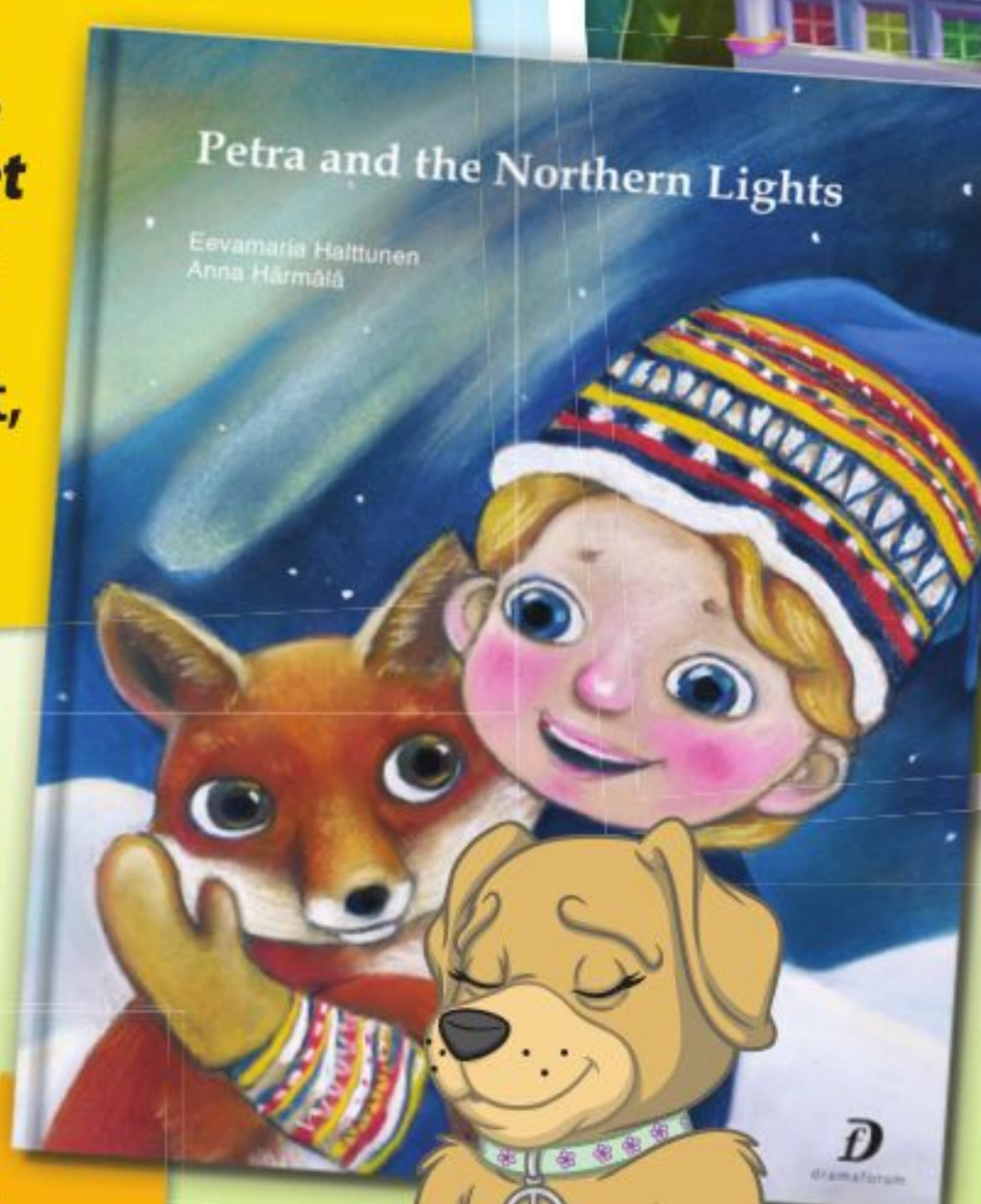
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We're giving away **Petra's Planet Share** to one lucky class, plus three colourful **Kurio Tablets**, made especially for kids! The tablets come preloaded with fun content that'll help make you super smart, including the NEW **Petra's Planet** app! Each student in the winning class will also bag a copy of the book **Petra and the Northern Lights**, and one month's access to **Petra's Planet Virtual World**, an exciting online world where you can chat with kids from all around the planet, complete fun missions and play mini games. Cool!

## How to enter!

For your chance to win this top technology, we want you to tell us in **no more than 150 words** about a project you and your classmates are working on, what you've learned or any school news! Include photos, too, if you like. Our favourite '**class blog**' entry will win. Good luck!



Show this page to your teacher and ask them to fill in the form on the right! Send it to us along with your entry by 18 November.



## NG KIDS CLASS COMPETITION ENTRY FORM

Pupil's name .....

Teacher's name .....

Teacher's email .....

Teacher's phone number .....

School name and address .....

Name of class .....

Post your entries along with this form to NG KiDS School Competition, Unit 1.04 Clerkenwell Workshops, 31 Clerkenwell Close, London EC1R 0AT

Please tick here if you do not wish to receive information from National Geographic Kids ☐ Third-party sponsors ☐

**If more than one pupil enters per class, please make sure each student writes their name and the name of their class and school on the back of their entry.**

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Ts & Cs: The winning class will get **Petra's Planet Share** software installed on all class tablets and existing computers (plus a one year licence for every student), three Kurio tablets, a copy of **Petra and the Northern Lights** for each student and one month's access to **Petra's Planet Virtual World** for every student.



# Fancy a CUP?



As far as the eye can see, there's tea! The bright green plants cover **890 hectares** of gently rolling hills – it's like a vast emerald sea! And walking between these neatly pruned bushes are the **tea pickers**, who quickly pluck the leaves and throw them into big baskets on their backs.

We're at the **Satemwa Tea Estate** in **Thyolo** (say 'cho-lo'), the tea capital of **Malawi**, southeastern Africa, which was established in 1923. The warm, wet climate in this area is great for growing tea and during the rainy season (December to April) workers can each pluck up to 100kg of tea a day – that's the same weight as three ten-year-old kids!

After being plucked, the leaves are transported to a tea factory where they're **withered** (dried), cut, **oxidised** (the process that makes tea **black**), dried *again*, sorted and blended, before being packed ready for export. Lots of the **black tea** produced in Satemwa ends up in your favourite tea brands, such as PG Tips and Tetley. Slurp!

Malawi was one of the first countries in Africa to start growing tea, back in the late 1800s. Today, Africa produces almost a third of the world's tea.

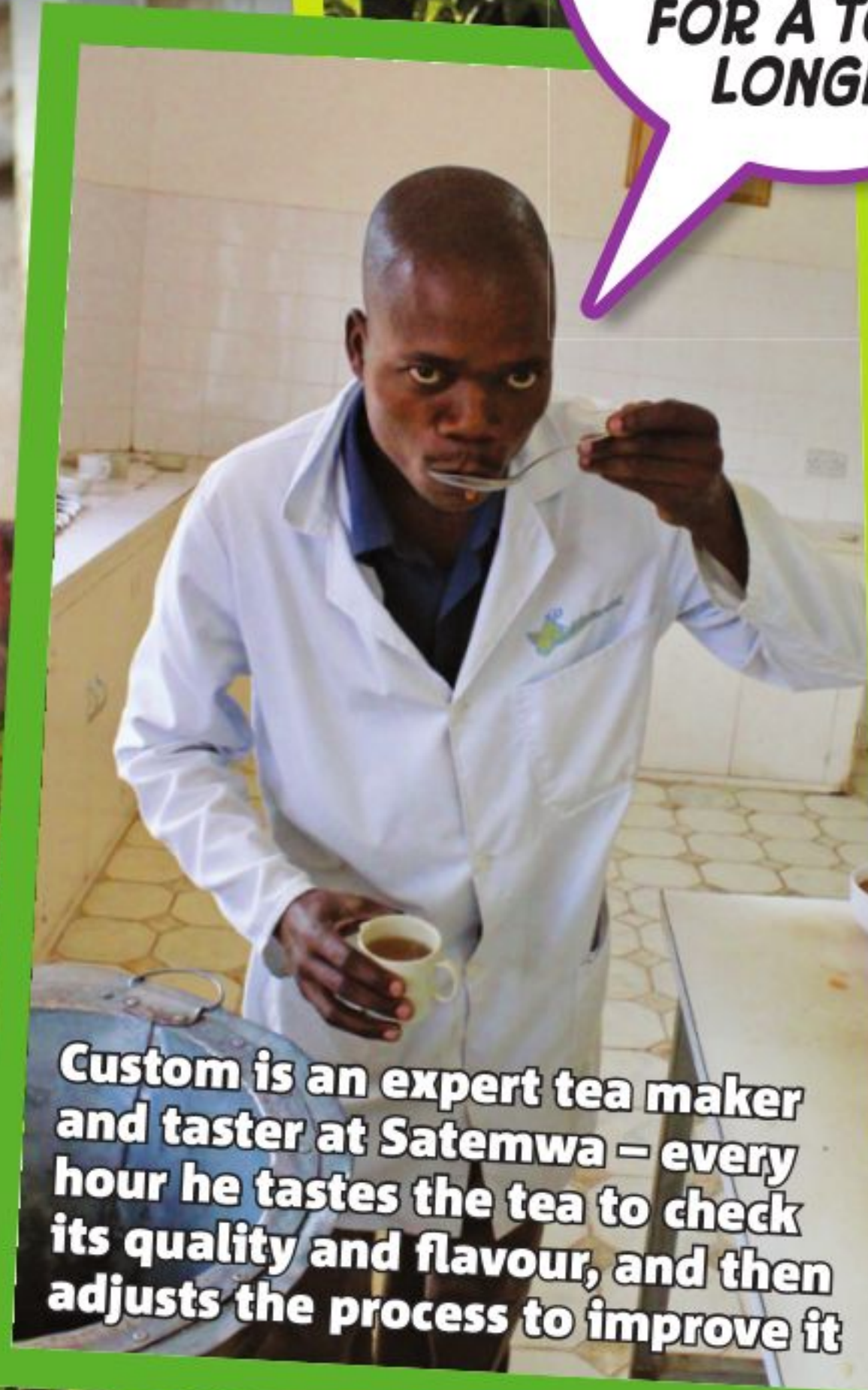


MMM,  
I THINK  
THIS ONE  
NEEDS TO  
BE WITHERED  
FOR A TOUCH  
LONGER.

The tea industry provides jobs for thousands of local people



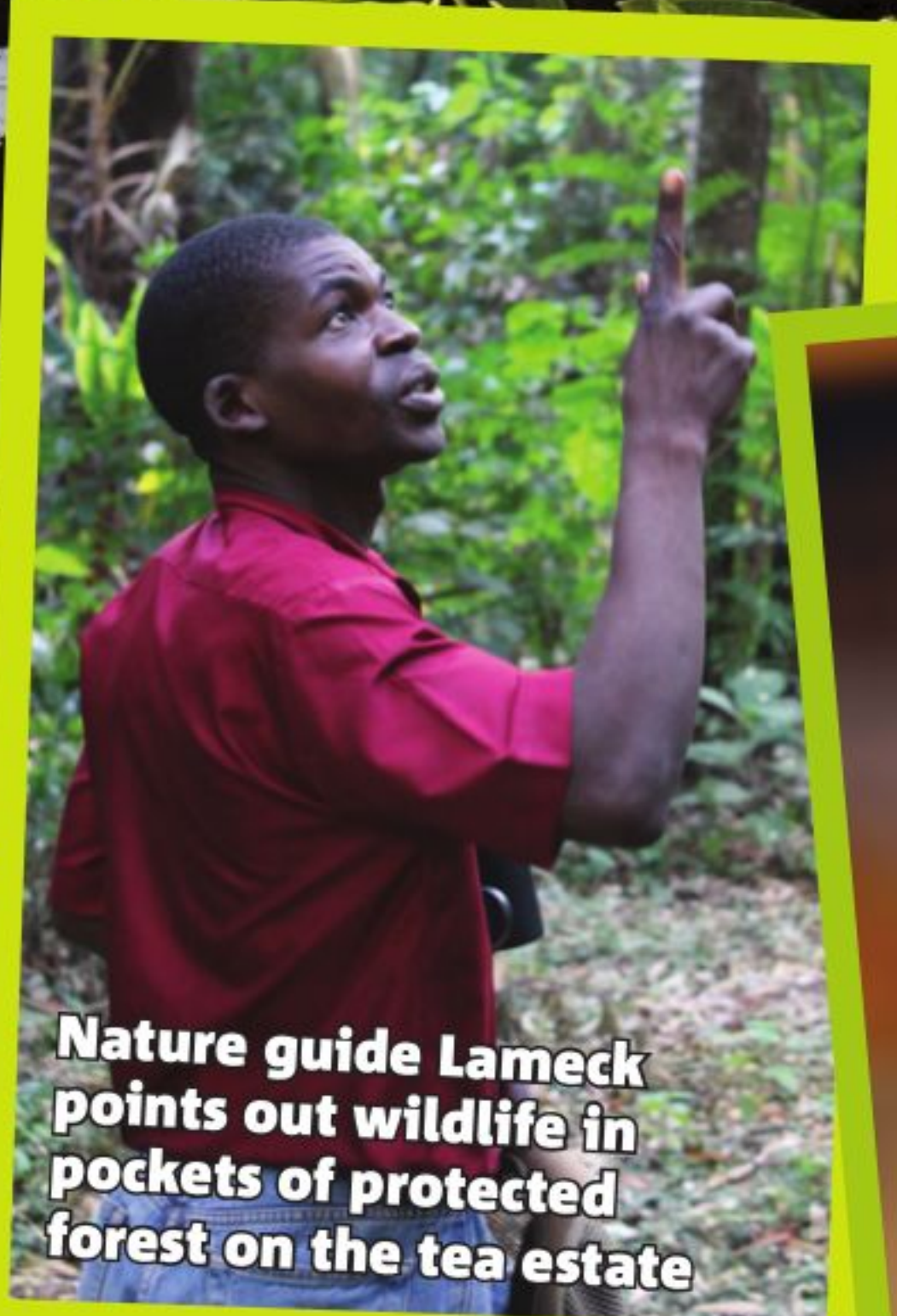
More than half the people working in the tea-making industry are women



Custom is an expert tea maker and taster at Satemwa – every hour he tastes the tea to check its quality and flavour, and then adjusts the process to improve it



Tea comes in many varieties and flavours!



Nature guide Lameck points out wildlife in pockets of protected forest on the tea estate



# PA?

Ever wondered where  
your tea comes from?  
We visit a tea plantation  
in Malawi, Africa, to  
find out more about our  
nation's favourite drink...



Images: Main picture and woman in factory © Anette C Kay;  
Livingstone's turaco © Getty Images UK; All other pictures © Georgia Harrison.

## DID YOU KNOW...?

Green tea, black tea,  
white tea and oolong  
tea all come from the  
same plant! Its Latin  
name is **Camellia  
sinensis**.

Malawi is  
home to more  
than 650 species of  
bird, including many  
brightly-coloured  
flyers like this  
beautiful turaco  
(below).



We spy the  
Livingstone's  
turaco!

## Fairtrade tea!

Satemwa was Malawi's first **Fairtrade** tea estate. This means that the workers are treated fairly and paid well. There are also four health clinics and a school on the estate, and Fairtrade-funded projects in the area include boreholes, bridges, housing for teachers and solar panels.



## Tea Timeline

The history of Britain's best  
brew begins in China...



Legend has it that the very **first cup of tea** was brewed by mistake when tea leaves fell into a pot of water being boiled for Chinese emperor **Shen Nung** in 2737 B.C.



We know for certain that the Chinese drank tea during the **Han Dynasty** (206 B.C. - 220 A.D.) because old tea containers have been found in ancient tombs!



By **1610**, regular shipments of tea were brought to Europe by trading ships. **Black tea** was developed so the delicate leaves would travel better.



It took a Portuguese Princess to make tea popular in Britain! When **Catherine of Braganza** moved to England to marry **Charles II** in 1662 she brought her love of tea with her. It became the fashionable drink of choice for rich folk.



Weirdly, one of the main places tea was drunk was in **coffee houses**, where wealthy men would meet to talk business. But thanks to high taxes, tea was still too expensive for most people to drink.



In the 1700s, huge amounts of tea were being **smuggled** into Britain by criminal gangs so ordinary people could avoid paying tea tax. This **illegal tea** was bulked up with other dried leaves and dyed with **sheep dung** to make it look more like proper tea. Eww!



By the mid 1800s, **everybody** loved tea, and because it was now being grown in **India** and **Ceylon (Sri Lanka)** and the taxes had been cut, it was cheaper and easier to get hold of.



**Teabags** were invented by accident in the early 1900s, when American tea importer Thomas Sullivan sent leaves through the post wrapped in silk bags. His customers thought the bags were part of the product! Teabags really took off in the UK in the **1970s**! Wanna brew?

NG KiDS travelled to **Malawi** with **kenya-airways.com** and luxury travel specialists **mahlatini.com**. Find out more about Malawi at **malawitourism.com** and learn more about tea at **satemwa.com**



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Email \_\_\_\_\_ Date of birth\* \_\_\_\_/\_\_\_\_/\_\_\_\_  
(\*essential if under 18)  
Please send adult pack ☐ OR under 14 pack (shown above) ☐

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☐ Tick this box if your adoption is a gift and complete the gift recipient details below:

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4. Bank/building society account number

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Signature(s) \_\_\_\_\_

Date \_\_\_\_\_

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Or call WDC now on 01249 449500.

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# TRIP TO THE LOO!

It's World Toilet Day on 19 November, so NG KiDS' time-travelling mouse, Max, takes a deep breath and explores the U-bends of history...

Oops! Hello, readers! This month we're celebrating World Toilet Day.

Did you know that one in three people around the world DON'T have access to a clean and safe toilet?

You would think that toilets and plumbing are a relatively modern invention, but 5,000 years ago the ancient civilisation of the Indus Valley actually had working toilets connected to a drainage system that washed waste away!

Archaeologists have yet to decipher Indus Valley writing, so who knows what they read on the loo?

3,000 years later, the Ancient Romans also built sewers that carried rain water to clean their communal public toilets. They even had their own goddess of sewers: Cloacina!

After the fall of the Roman Empire, sophisticated plumbing was all but forgotten.

In 1596, John Harrington invented a flushing toilet, but it never took off. In fact everyone laughed at him and his silly idea! John only made two - one for himself and another for his Godmother - Queen Elizabeth I.



It's a dirty job, but somebody's got to do it!



It's very eco-friendly!

In medieval times, even toilets in castles were basic - just benches with holes in so waste dropped down to the moat below. The best case scenario was a hole over an ocean so waves 'flushed' sewage away.



The Queen is on her throne.

I won't be a minute!

It wasn't until 200 years later, in 1775, that Alexander Cumming invented a flushing toilet again(!) and finally it became a hit!

Thomas Crapper is often credited with inventing the lavatory, but he is just one of many who tweaked and popularised the toilet. He did in fact supply Prince Edward (the future king of England) with loos!

In 1851, engineer George Jennings installed the first public toilets at London's Great Exhibition, to great acclaim! 827,280 people paid one penny each to use them, giving us the phrase, "To spend a penny" when we go to the loo!



Toilets drive me round the bend!

He invented an S-shaped bend to trap water and prevent dangerous gasses entering buildings.



I knew I'd make a name for myself!



Wee! That's a lot of pennies!

During the late 1800s, as posh flush loos grew more popular, other people stuck to simpler methods, including the dry earth closet, which mixed waste with earth. This could then be dug back into the garden!

And having a toilet inside your house is a very recent development, as most people had toilets OUTSIDE! (Ask your nan!)

Toilet design has pretty much stayed the same since Victorian times, although in Japan you get all sorts of extra add-ons, such as clouds of perfume and water jets!



Don't my flowers smell lovely?

If you say so!

Rev Henry Moule, the inventor



They were cold, dark and full of big spiders!

Hee hee hee!



AARGH!

Whilst we marvel at modern toilets, let's hope World Toilet Day goes some way to improving sanitation all over the world!



# tiny planets



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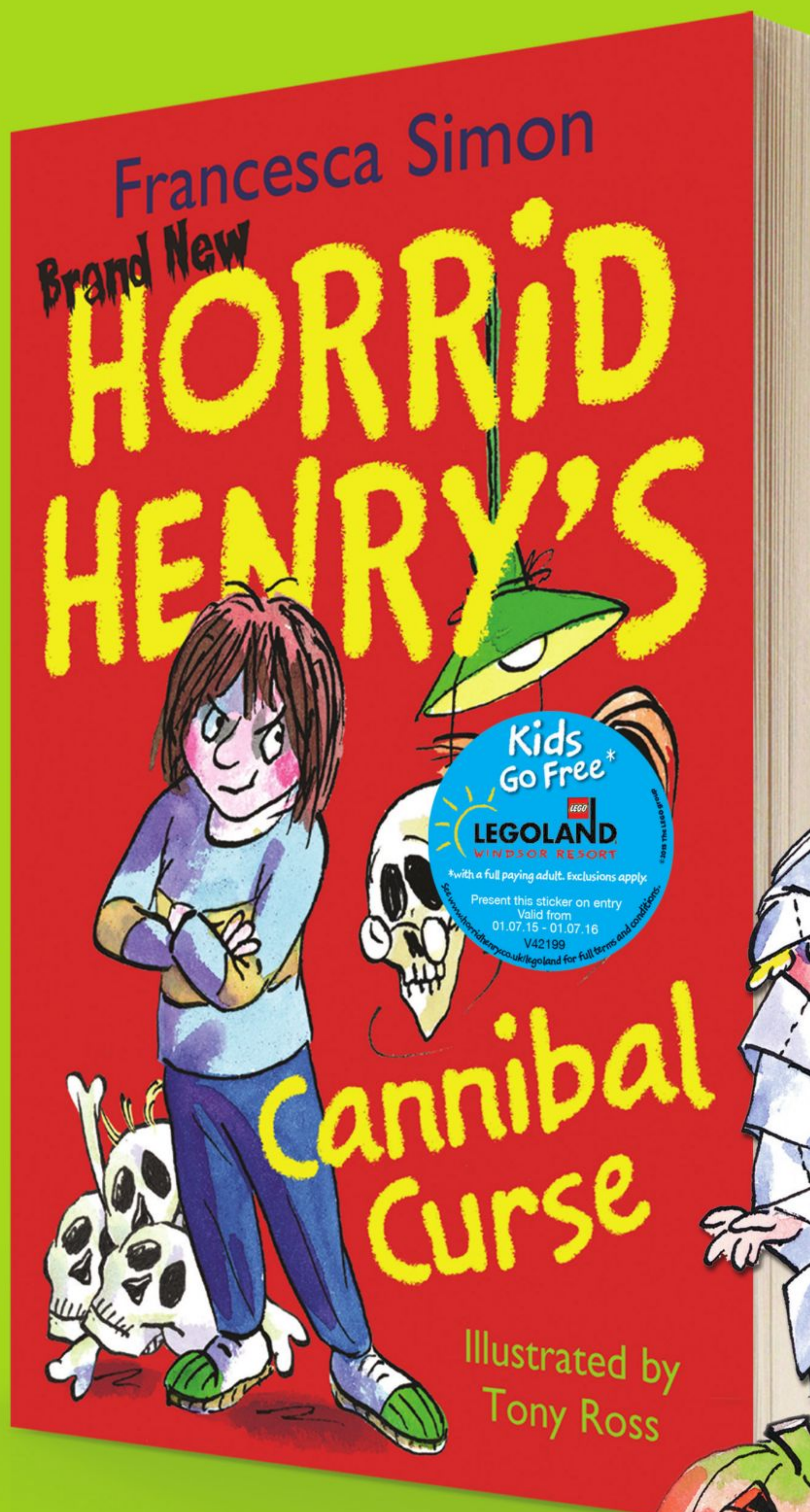




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# THE LOST

## Bones found in a submerged Mexican cave give clues about the first Americans...

Divers perform ceremonies to ask the gods for permission before entering some underwater caves in southern Mexico!

Diver Susan Bird cleans the skull with a brush



Three scuba divers plunge into a hole leading to a water-filled cave on Mexico's Yucatán Peninsula.

They swim for an hour through a passage with 1.8-m-long stalactites (icicle-shaped rocks) hanging from the ceiling.

Finally, they reach a chamber 18m underground that's about the size of two basketball courts. On the floor of this cavern, they gaze at a rock ledge. Peering back is an upside-down **human skull** that's been in the cave for over 10,000 years – a skull that could reveal exciting things about the very first people to live in North America!

### A jaw-dropping find

The team came across the skull and other bones in 2007 while examining unexplored chambers of the cave. "It

was just sitting there," says National Geographic grantee and diver **Alberto Nava**. "It felt as if it were staring at us."

After resurfacing, the divers alerted colleagues and the Mexican government about the find. The government formed a team of scientists to investigate. The group, which included archaeologist **Dominique Rissolo**, suspected that the skull belonged to someone who lived in the last **ice age**. At the ice age's height some **20,000 years ago**, sea levels dropped and new land was exposed. Over time, rain and wind ate holes into some of the land.

"The person may have perished after falling into one of these cavities," Dominique says. "Then, when the ice age ended some 10,000 years ago, sea levels rose. Water flooded the cave, covering the remains."

### Underwater investigation

The scientists decided to examine the skull at its watery resting place. The divers who found the remains made several other trips to the cave. Using a 3-D scanner, they collected data about the skull and other pieces of the skeleton. They even brought teeth to the surface.

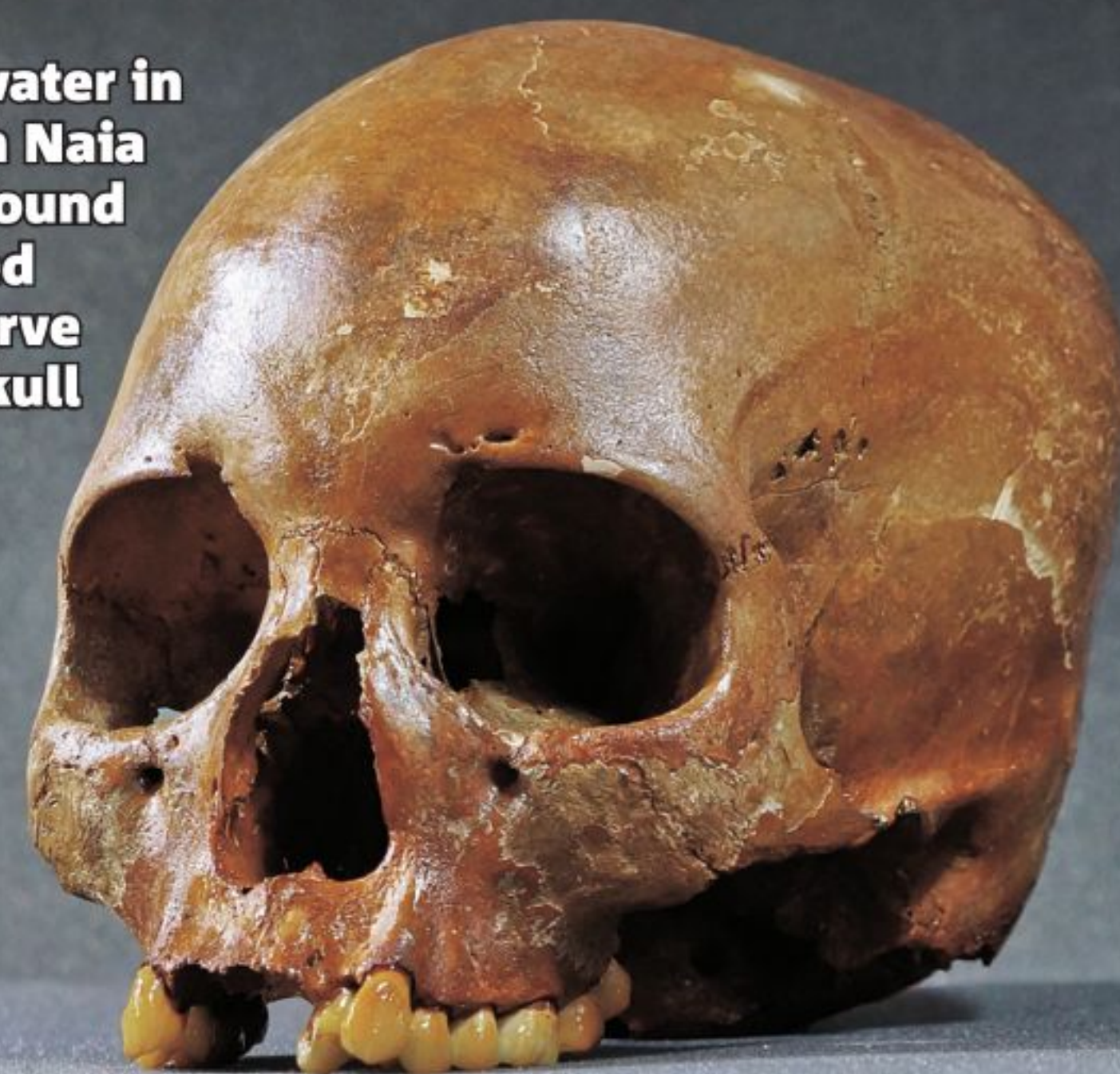
Above ground, scientists studied the scans and teeth. They figured out that the bones belonged to a **15- to 17-year-old girl** who lived at least **12,000 years ago**. The team named the teenager **Naia** after some sea creatures in Greek myths.

Naia is the **oldest nearly-complete human skeleton** ever found in the Americas. DNA tests showed that she's a direct ancestor of present-day **Native Americans**. Naia's DNA also matches with



# SKULL

The water in which Naia was found helped preserve her skull



Stalactites grow up to 3mm a year.



The bones of sabre-toothed cats, giant ground sloths and gomphotheres (extinct elephant-like creatures) were also found in the cave.



Scientists worked with artists to create a model of what Naia might have looked like based on the skull they found



The Yucatán Peninsula has 2,500 Mayan ruins.



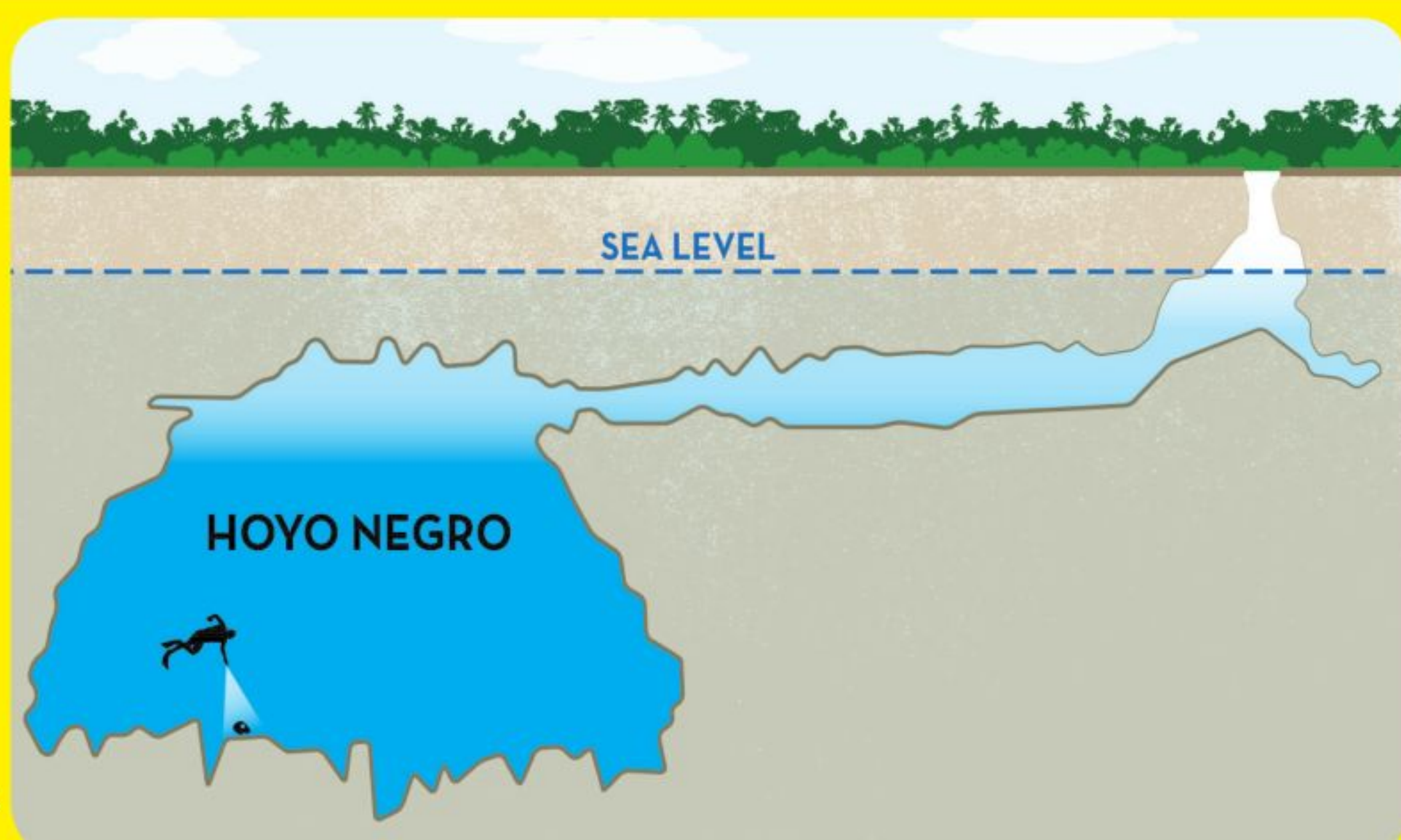
people native to **Siberia**, a part of Russia. Scientists have long thought that ancient people from this region crossed to North America on land exposed between what is now **Russia** and **Alaska** during the last ice age. They were the first humans to inhabit the Americas. And Naia proves **how far south they migrated**.

## Naia resurfaces

In 2014, the scientists decided to bring up Naia's skull from the cave to protect it from curious divers. After they swam to Naia's chamber, they gently placed the remains in a container and glided to the surface. Naia's skull was taken to a lab, where it remains today. "Naia was in the dark for so long," Dominique says. "Now she's shedding light on the past!"

## INTO THE DEEP

Divers located Naia's skull in a watery cave they named **Hoyo Negro**, or 'black hole' in Spanish. The divers entered the cave through a hole in the ground, climbing down a ladder to get to the water, before swimming through a passage. The chamber that housed Naia's remains is 61m in diameter and 55m deep.





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GRUESOMELY CRAWLY

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# DID YOU KNOW?

# Geckos & Co.

## Geckos, salamanders and other cool critters...

Reptiles and amphibians are really amazing creatures – some have even helped scientists in space! Read on to find out more!

### Hot and cold

Reptiles and amphibians are 'ectothermic' (also called 'cold-blooded'), which means that their body temperature adjusts to that of their surroundings. The animals are less active when it's cool and become more so when it gets warmer. Some iguanas (a type of reptile) lie motionless for hours in the hot deserts, soaking up the sun's warmth! Imagine what it would be like if your body temperature in the winter was only 2°C, but in the summer it rose to 30°C!

### On land and in water

Amphibians, which include frogs, toads, newts and salamanders, live partly or completely in water. The word 'amphibian' is Greek for 'living in water and on land'. They generally lay soft-shelled eggs and their young 'metamorphose' (transform) from tadpoles into their adult form. Cool!

Geckos have been on Earth for over 100 million years!

In shops now!

Which gecko is this? Information about each gecko is provided in the Gecko Fact File

### Scaly mountaineers

Reptiles, such as geckos, lizards, snakes and crocodiles, have dry, scaly skin. Most lay leathery-shelled eggs which hatch into small versions of the adults, but some reptiles give birth to live young. Many geckos have millions of hair-like strands on their feet which give them an incredible ability to grip onto surfaces. The nimble little creatures can climb vertically on walls and glass windows, and can even cling upside down on the ceiling! NASA scientists have studied geckos to help them create special 'grippers' for astronauts to use in space!

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FACTS

COLLECT THEM ALL

# Geckos & Co.



# BRAIN G



The **human brain** is thought to be the most complicated object in the known universe. As 'Mission Control' for the rest of your body, it's always buzzing with activity, enabling you to move, breathe and, of course, think (among many other things). Sometimes, however, it seems to act a bit strangely!

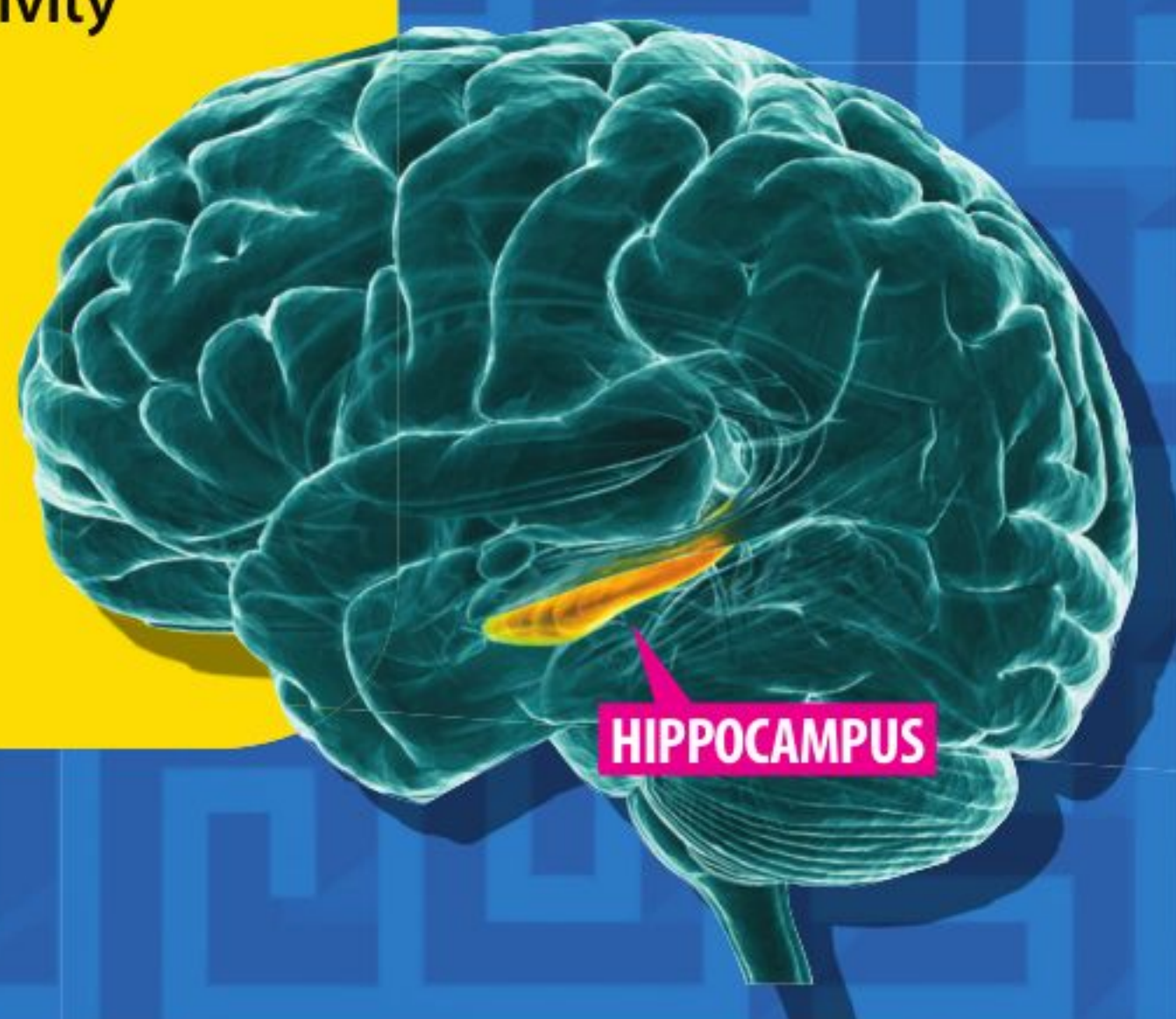
Exercise your noggin with these three brain-bending challenges, and find out what they reveal about your magnificent mind...

## Challenge 1

Sing the **ABC** (alphabet) song. Easy, right? Now try it backwards. Tricky, eh?

**WHAT'S HAPPENING:** When you learn something new, cells in your brain called **neurons** fire off **electrical signals**. Other neurons pick up the signals and pass them along like a game of **pass the parcel**. The neurons fire to each other in a unique pattern, forming a **memory**. This memory is stored in an area of your brain called the **hippocampus**. If you do the activity again, the neurons repeat the pattern, **strengthening the memory**.

So when you sing the **ABC** song, your brain cells are firing in an order that they've repeated many times. But by trying to perform the tune *backwards*, you force the neurons to fire in **reverse**, which confuses them. And this leads to your singing struggles!

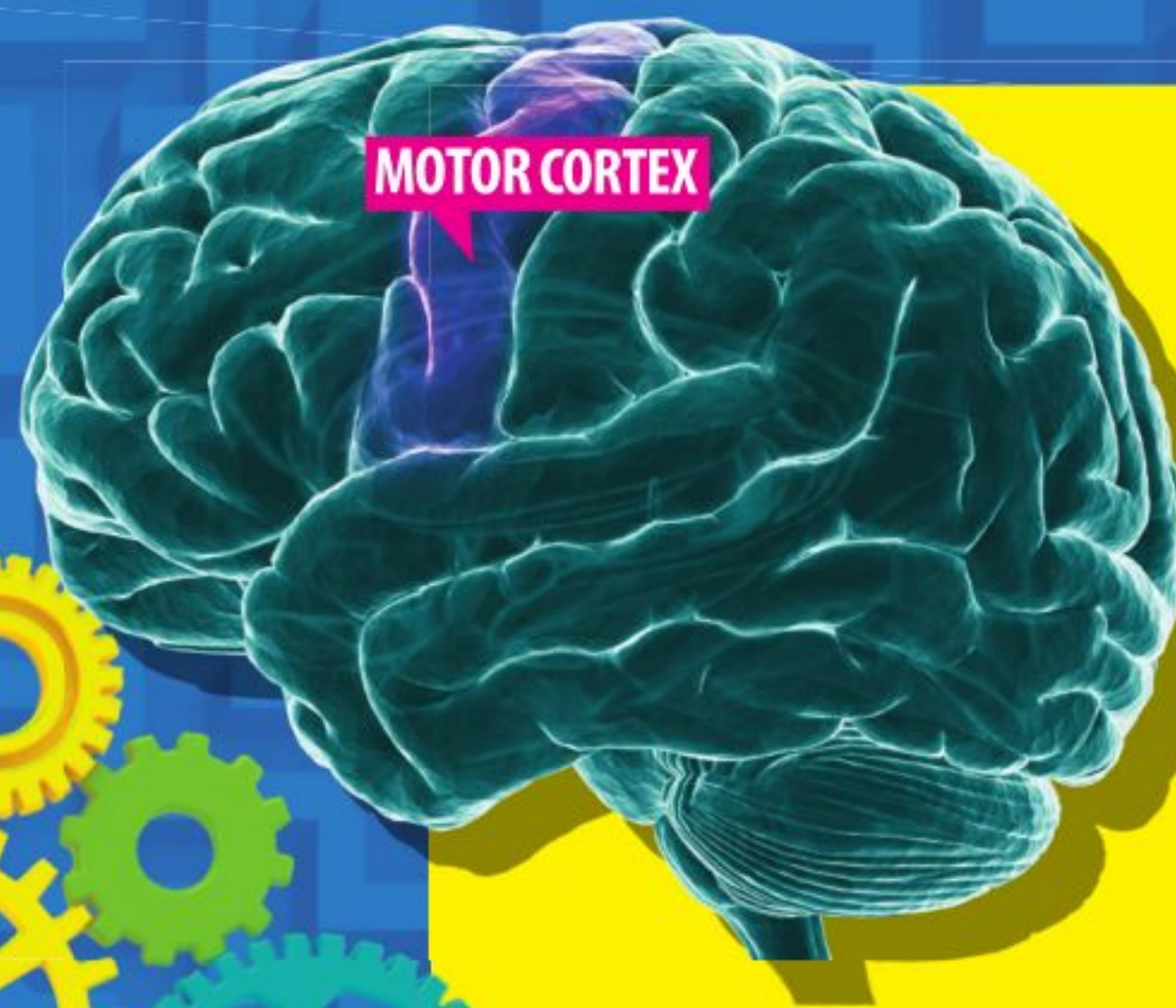


## DID YOU KNOW...?

The human brain contains 86-100 billion **neurons** (nerve cells). **Motor neurons** carry electrical impulses to your muscles, helping you move. **Sensory neurons** transmit info about sight, sound, smell and touch.



# AMES



## Challenge 2

Move your right foot in a circle clockwise, then draw sixes in the air with your right index finger at the same time. Did your foot change direction?



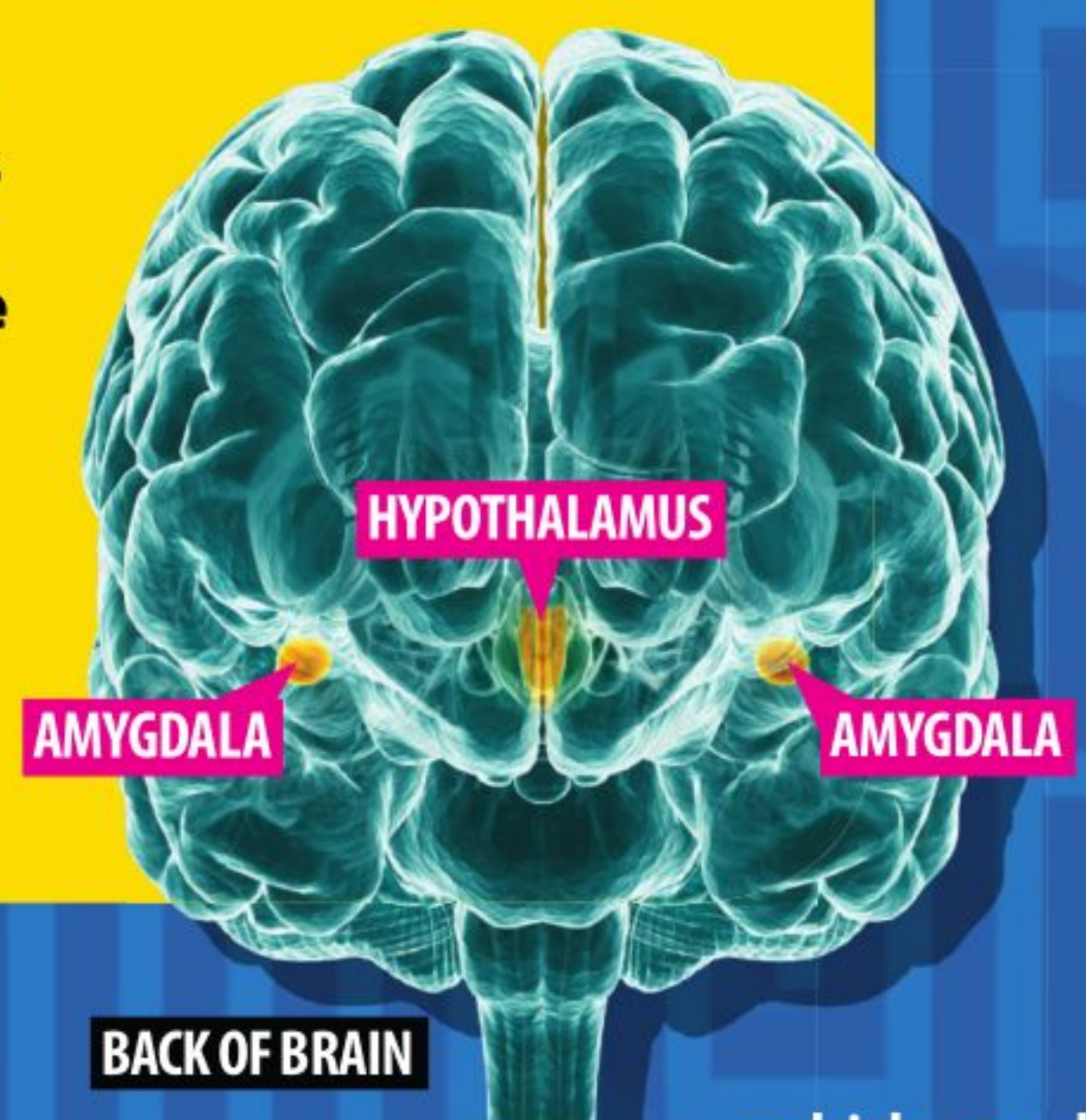
**WHAT'S HAPPENING:** Your brain is divided into two halves. The **left** half of your brain controls the **right** side of your body and vice versa. And each side has a section called the **motor cortex**, which controls movement. To perform this challenge, the brain's left half must do all the **hard work** – raising your foot *and* your finger and manoeuvring them in two *different* directions. Trying to juggle all of these commands overloads your thinker and causes it to abandon its mission. Instead, the left half of your brain takes a shortcut, combining the motion of these body parts. That's why your foot starts copying the movement of your finger!



## Challenge 3

Close your eyes and imagine a huge, hairy spider crawling up your arm. Did the thought cause you to cringe?

**WHAT'S HAPPENING:** Your brain is designed to help protect you from danger. When you imagine a spider skittering across your body, the brain perceives a threat. A set of structures in the brain called the **amygdalae** takes charge and activates your body's panic system. It shoots off a lightning-fast signal to another section called the **hypothalamus**, which tells your heart to beat faster, your breathing to speed up and your stomach to clench. In doing this, your mind is sending a 'quick, run!' message to the rest of your body.



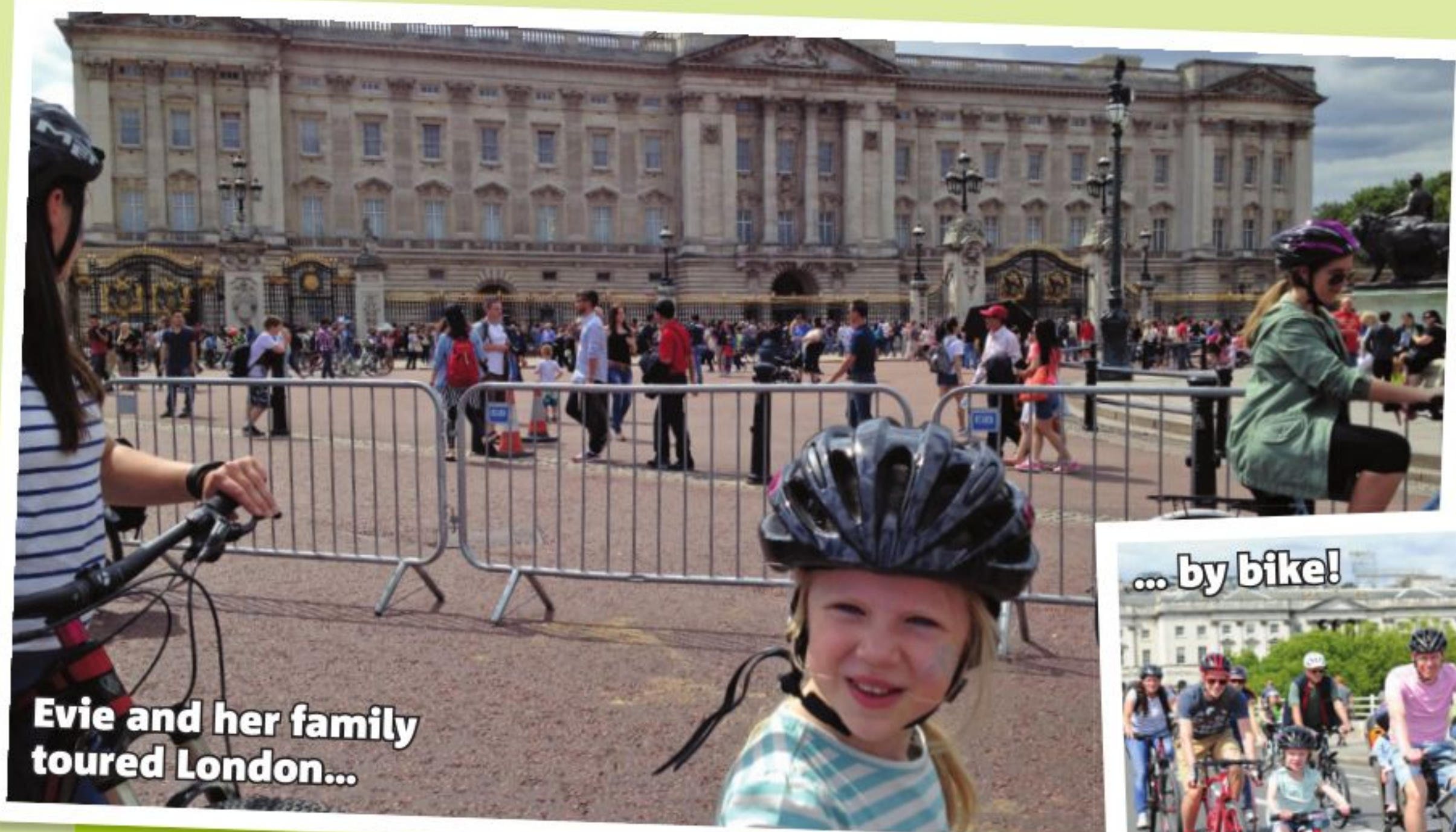


# Junior Reporters' CLUB

IT'S  
YOUR  
PAGE!



Do you want to see yourself in the magazine? Have you been on an adventure? Is there a cause that you think is worth shouting about? Then get in touch! The **Junior Reporters' Club** is YOUR page and we want to hear from YOU! Send your messages, reports, photos and pictures to [kids@ngkids.co.uk](mailto:kids@ngkids.co.uk)



Evie and her family  
toured London...



... by bike!

## CITY CYCLE!

Every year in London, a festival is held where lots of people of all ages ride their bikes. Ten miles (16km) of roads are closed (no cars!). It's called **Freecycle** and this year I did it with my family and **70,000 other cyclists!**

Along the route are festival parks where there are lots of fun things to do. You also pass many famous landmarks like **Big Ben**, **Buckingham Palace**, the **London Eye**, **St Paul's Cathedral** and the **Houses of Parliament!** I did almost two laps this year on my new bike. It was great fun and I would encourage anybody who likes cycling to come along next year to give it a go!

Evie Bywater, 7

● What an exciting event, Evie! You're a super cyclist!

## Write to us!

Every reader featured on these pages will receive an awesome glow-in-the dark **Glowing Ghosts** art kit from **Revell MyArts!** Are you ready to get crafty?!



**Post us a letter!** NG KiDS,  
Unit 1.04 Clerkenwell Workshops,  
31 Clerkenwell Close, London EC1R 0AT



**Send us an email!**  
[kids@ngkids.co.uk](mailto:kids@ngkids.co.uk)

We're sorry, but we won't be able to return your art or photos.

**Try to make your pictures as bright and colourful as you can!**



Revell MyArts is available from all good retailers. Check out [revell.de/en](http://revell.de/en) for more info!

## SUPER STONEHENGE!

I really liked reading my copy of Nat Geo Kids and finding out about **Stonehenge**. So I was very excited when I found out I was going on holiday near Stonehenge! The stones were **ENORMOUS**. We took a lot of photos, and it was truly amazing.

Before the actual stones there were some little huts, which I enjoyed exploring with my brother Zachary. They were models of what people thought the houses of the people who built Stonehenge looked like. Inside the houses the beds were made of logs and they had a fire in the middle of the hut.

Sophie Cliff, 7

● Great pictures, Sophie.  
Thanks for your report!



Sophie and Zachary explored the ancient huts, too!



Sophie took  
NG KiDS with her to  
Stonehenge. Yay!

## Quick question

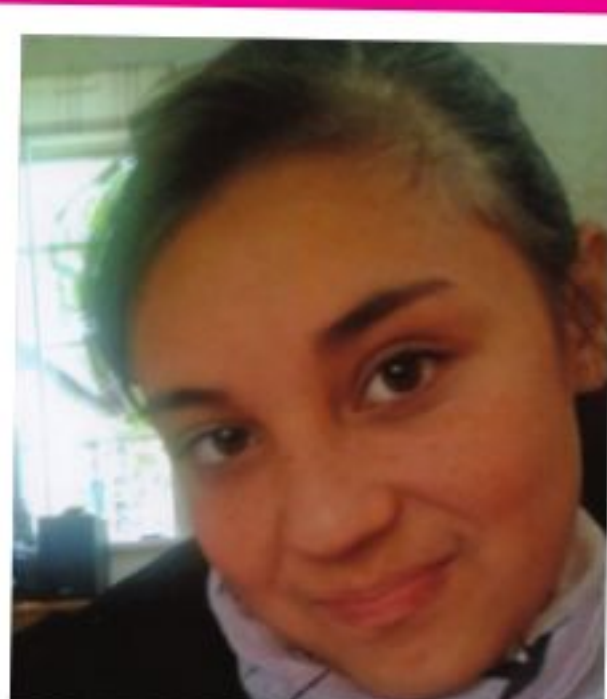
This month,  
we ask NG KiDS  
readers...

**Where in the  
world would  
you most like  
to visit?**



**Rory, 6**

I'd love to explore  
the tropical seas  
and see the animals!



**Naraj, 12**

I would like to  
visit Disneyland  
in Paris!



**James, 8**

I'd go to Costa  
Rica for the  
sunny beaches!



**Maria, 12**

I'd like to see my  
auntie and cousins  
in America!



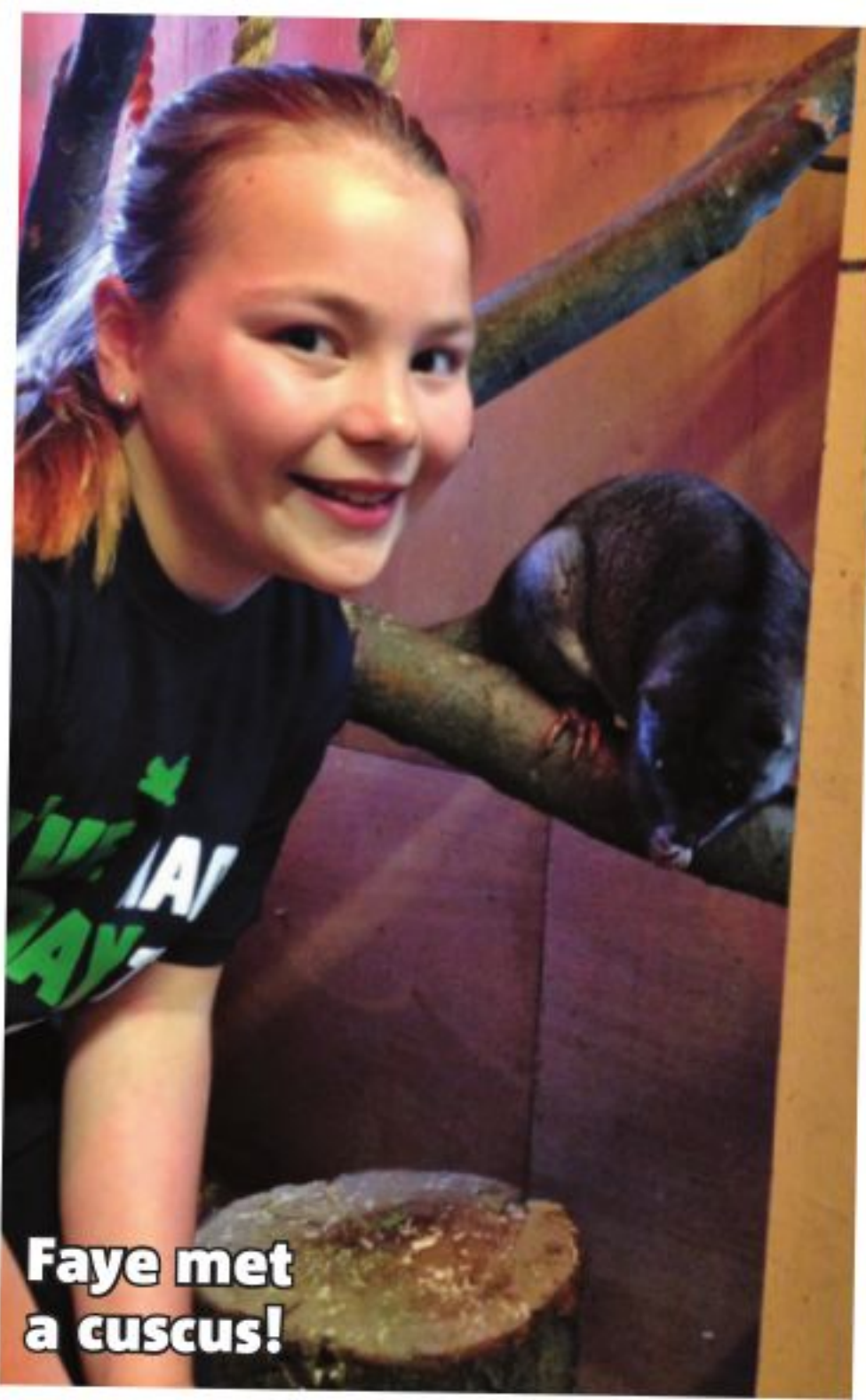
**Antoni, 6**

I'd love to go to  
the rainforest to  
see lots of snakes!



## COOL KEEPER!

I was lucky enough to be a **zoo keeper** for the day at **Edinburgh Zoo** for my birthday! First, we cleaned out the **armadillo's** cage, which was great fun. He was tiny! We moved the armadillo, took out his hay, shredded paper and all his toys, then brushed everything out and put in some nice clean hay and paper. We also gave him clean water, food and his toys.



Faye met a cuscus!

I also got to meet a **cuscus** (a marsupial from Australia), a **tenrec** (he looked like a hedgehog but he is actually more closely related to an elephant!) and some **penguins**. I was so sad when it was over – I really want to work with animals when I leave school.

Faye McKee, 11

● Sounds like you had a really busy day, Faye. Good luck getting that *wild* job!

How cute is this tiny tenrec?!



Roll up, roll up, for the armadillo!

Lucius found this mysterious insect when he was visiting Cambridgeshire!



## MYSTERY BUG!

I found a bug while I was visiting **Fen Ditton**, in **Cambridgeshire**, and I have no idea what it is! It's a bronze-brown colour, quite large and it makes a squeaking sound. Does anyone know what it is? It's a real mystery!

Lucius Vellacott, 10

● Wow – what a cool find, Lucius! We've asked our bug expert, **Professor Jim**, and he says it's an *Aromia moschata*, aka a musk beetle.

## TIME TRAVELLERS!

I went **Medieval Glamping** at **Warwick Castle** with my family and we stayed in this huge fairytale tent! It had a giant **spruce** wood trunk and was decorated in a medieval style. The beds had faux fur for covers and looked like they belonged to a king! We enjoyed a **medieval feast**, **archery** and a **knights and jester school**, too. We also went into the castle and saw loads of shows, including the scary **dungeons**, **birds of prey** and **jousting**.

The best bit was **Splat the Rat**. It was really fun because it was boys vs. girls and when it came down to the last rat, I got it and won for the boys! It was a holiday of my dreams.

Jack Mole, 8

● Wow, what a treat, Jack!



Jack and his family stayed in this amazing 'medieval' tent!

ADVERTISING PROMOTION



**BANANAGRAMS** is the award-winning word game that will drive you... *bananas*!

Players race against each other to build crossword-style grids and use up all their letter tiles. But there's no turn-taking here – it's a madcap race to the finish!

Perfect for all little monkeys – from age seven to 107!



**WIN!**

Each month, we're giving you the chance to win an **AWESOME BANANAGRAMS** game of your own! This issue, just solve the puzzle below, then turn to page 55 to enter. Good luck!



## GREAT APES!

The five super simians listed below fit perfectly into this grid. But can you work out which type of ape fits into the *blue* tiles?



Bonobo  
Chimpanzee  
Gorilla  
Human  
Orangutan



Now you can play **BANANAGRAMS** in class! Ask your teacher to register your school for the **BANANAGRAMS Challenge** (it costs nothing) and get a **FREE** welcome pack, too! For more info, check out [bananagramschallenge.co.uk](http://bananagramschallenge.co.uk)



# Wheel away with Heelys trainers!

Eight lucky readers will take off in a super-cool pair of **Heelys** – the two-in-one trainers that take you from walking to wheeling in seconds!

Will you choose to make a serious style statement with the striking silver, pink and blue or the bold red, black and grey **Heelys Motion Plus**? Or would you prefer to skate up a winter storm with **Heelys Propel**, the classic low-top lace-ups available in jazzy neon colours or smart orange and grey? Whichever style you choose, you'll be shredding the streets in no time!

To be in with a shot of winning a pair of **Heelys**, just answer the question below...

**Q** Which of the following is NOT another word for a type of trainers?

a) Sneakers b) Plimsoles c) Stompers

● Skate over to **Heelys.eu.com** to find out more!  
Get hold of your Heelys at **Skatehut.co.uk**

Heelys are available in UK sizes 12-7. Winners will be contacted to find out their preferred style and size. Prizes subject to availability. Always wear protective gear while using Heelys to keep yourself safe.



# PRI PLAN

Enter on page  
Just head to n  
or scan this

**STAR  
PRIZE**

## Win a wild Welsh holiday!

There's a wicked new way to explore South Wales – the new **Nature Keepers Quest**, part of the **Dare to Discover** app! This interactive treasure hunt will have you climbing sand dunes and exploring forests in search of the 'keepers' (far right) – 14 cool wooden statues hidden throughout Bridgend County!

To celebrate the launch of this app, we've got an amazing **family holiday** up for grabs! One lucky reader will scoop a **two-night break** at **Ty Tanglwyst Farm holiday cottages**, dinner for four at the luxury **Coed y Mwstwr Hotel**, a **surf lesson** for the whole

family with **Porthcawl Surf** and **£150 towards travel**, with plenty of time for your own **Nature Keepers Quest**. Wow!

**Q** Which of these is NOT a place in South Wales?

a) Swansea b) Bridgend c) Somerset

● Head to **bridgendbites.com** to find out more about the awesome app. To read about the prizes, head to **www.tytanglwystholidaycottages.co.uk** and **porthcawlsurf.co.uk**



## Create cool scrap sculptures with CLIP IT!

Don't chuck away your plastic bottle caps, gang, because they can now be transformed into colourful **works of art**, thanks to these clever little **CLIP IT** clips!

The **recycled clips** are specially designed to fasten your milk, juice and water bottle caps together to create cool shapes and pictures. Each box comes with a

design template to follow, such as a parrot or a flower, but you can sculpt *anything* you like – the only limit is your imagination!

Seven winners will each scoop a big box of **750 CLIP IT clips**. So get ready to give your waste a new life!

**Q** Can you unscramble these letters to reveal something that comes in a bottle with a screw cap?

**ZZIFY OPP**

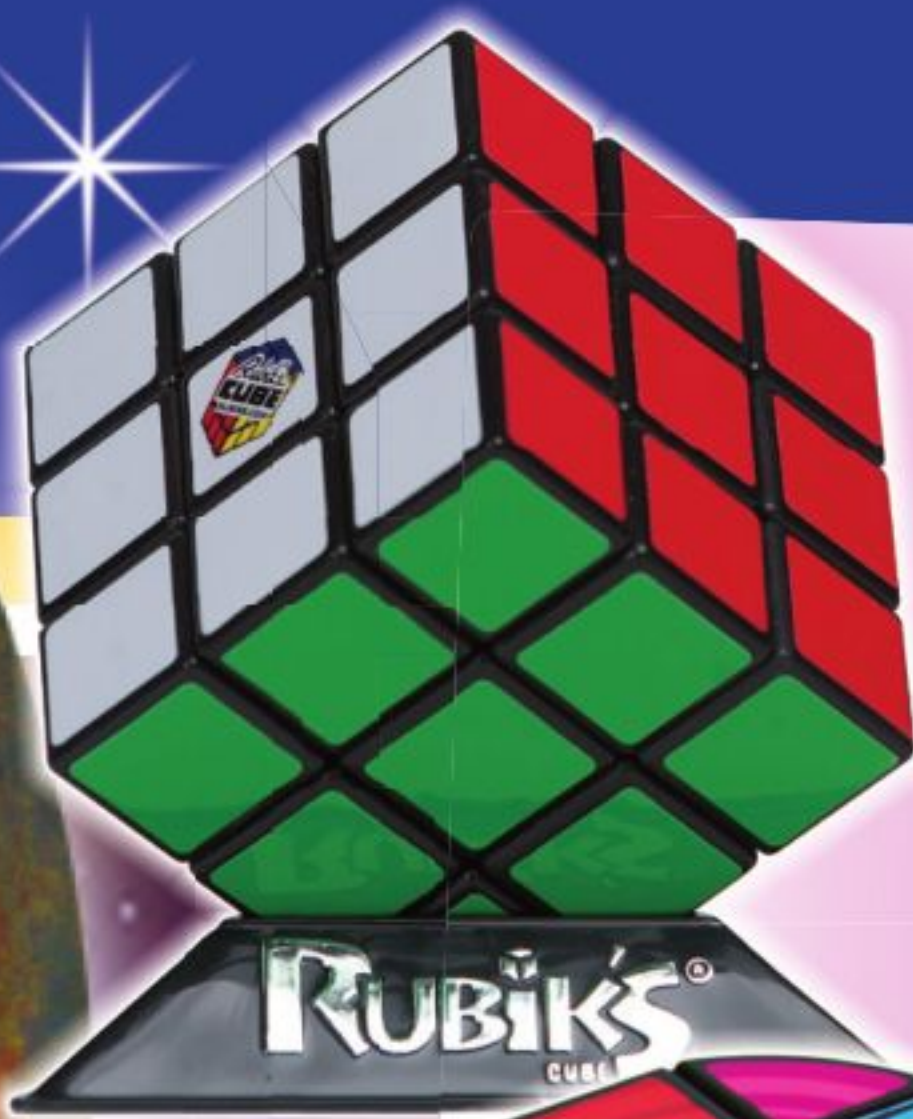
● CLIP IT is available online at **clip-it.fr**





# PRIZE NET!

55 or online!  
[johnadams.co.uk](http://johnadams.co.uk)  
 QR code...



## Twist and shout with Rubik's!

The **Rubik's UK Championships** is coming up in November, where speedcubers from all over the world will be battling it out to become the **Rubik's UK Champion**. To celebrate, we've got some awesome Rubik's prizes to give away.

Tackle the **Rubik's Twist**, a twisting turning challenge that can take the form of thousands of figures and shapes! Get on your marks with **Rubik's Race**, a two-player face-to-face race to slide your tiles and match the pattern on the dice! Have a go on the original **Rubik's Cube**, the most perplexing puzzle in history, with 43 quintillion combinations! Plus, take on **Rubik's Void**, a version of the original cube with the core missing – can you complete the circle around the void and come out victorious?

Eight readers will nab all four of these **Rubik's puzzles**. Cool!

**Q** How many sides does a cube have?

a) Five b) Six c) Seven

● Check out [johnadams.co.uk](http://johnadams.co.uk) for more amazing games!



## Rock 'n' Roll with Scooby-Doo

**Scooby-Doo** and the gang have teamed up with rock stars **KISS** for the ultimate adventure – **Scooby-Doo! and Kiss: Rock and Roll Mystery**, out on DVD now!

When Scooby and the gang visit the KISS World Theme Park for a KISS Halloween concert, and find that it's shut, they start to investigate some ghostly goings-on! Will they be able to team up with their favourite rock stars and thwart the Crimson Witch's dastardly plan? Can they save the theme park – and the world?!

One star prize winner will scoop a copy of **Scooby-Doo! and Kiss: Rock and Roll Mystery** on DVD, plus a **PS4**. Wow! Fifteen runners-up will each scoop a copy of the DVD. Scooby dooby doo!

**Q** What type of dog is Scooby-Doo?

a) Great Dane b) Cocker Spaniel c) Dalmation

● **Scooby-Doo! and Kiss: Rock and Roll Mystery** is out now on DVD!



Enter ALL comps  
on page 55!

Ts & Cs: Prize available is for maximum of four people (two adults, two children). Holiday is subject to availability and is not inclusive of Christmas, New Year and school holidays. The complimentary meal at Coed y Mwstwr is up to the value of £70. Competition prize is redeemable until 31 October 2016. To get the most out of this prize you'll need a car, so please check with your parents before entering. Prize includes £150 towards travel costs.

SCOOBY-DOO! AND KISS: ROCK & ROLL MYSTERY: SCOOBY-DOO and all related characters and elements are trademarks of and © Hanna-Barbera. © 2015 Warner Bros. Entertainment Inc. All rights reserved.



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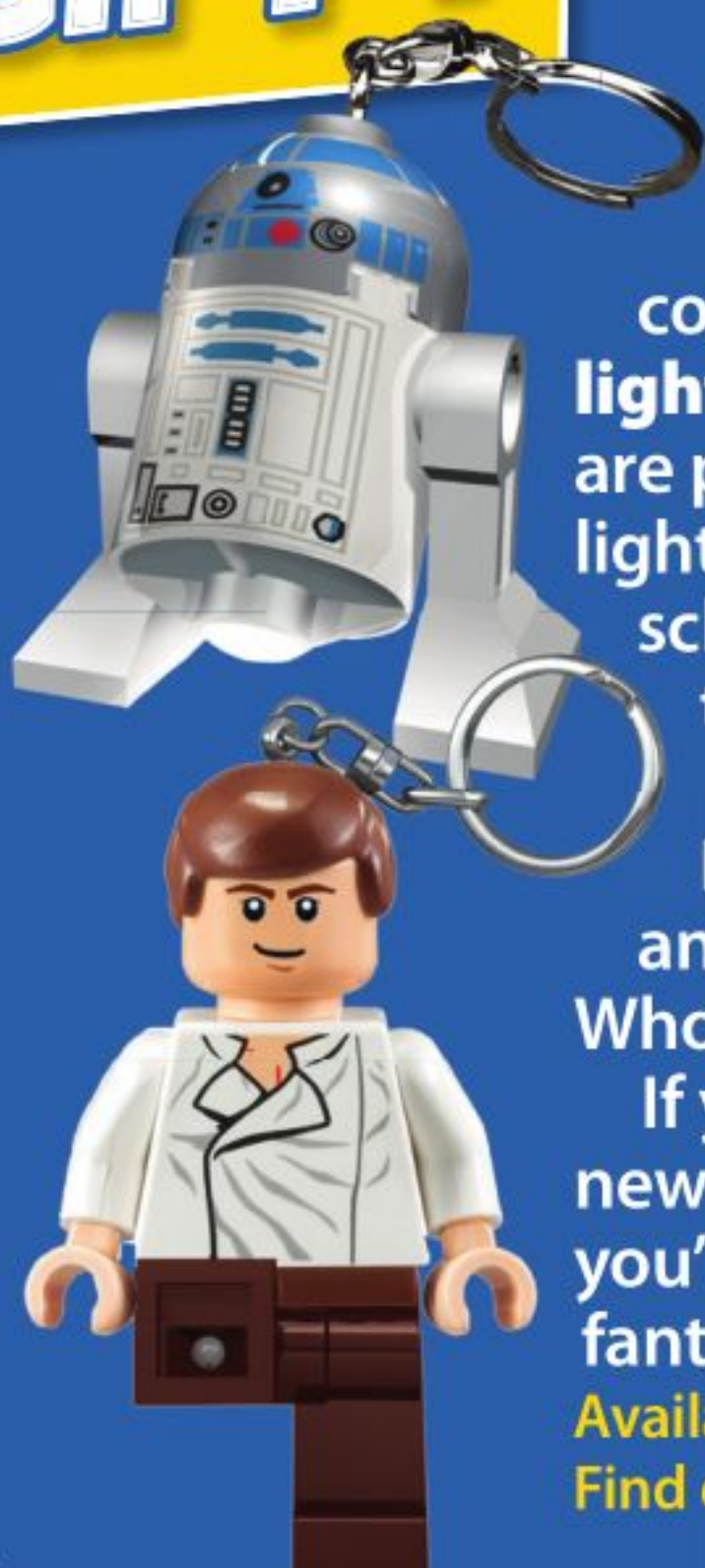


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Light up the dark side with a cool **LEGO Star Wars** key ring light. These awesome key rings are pose-able and have LED lights in their feet. Perfect for school bags, belts and keys, there are loads of *Star Wars* characters to collect, including **Darth Vader**, **R2D2**, **Han Solo** and a supercool **Stormtrooper**. Who's your favourite?

If you're one of the first 50 new subscribers this month, you'll receive one of these fantastic key rings for free! Available from all good toy stores. Find out more at [LEGO.com](http://LEGO.com)

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## GIFT 2

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# DAY!

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The set contains ten hilarious tricks and gags, including some timeless classics that never fail to hit the spot – the realistic pile of **fake doggy do**, a self-inflating **whoopie cushion** and a **floating eye ball**. Yuck! Your grown-ups are going to be in for a real treat. Not!

For stockists and to play games online, visit [drumondpark.com](http://drumondpark.com)

**GIFT 3**



## GeoSafari torch

Love exploring? Planning a night-time outdoor adventure? Then make sure you pack this brilliant **GeoSafari Night Explorer torch** in your bag! Perfect for safaris, scavenger hunts and garden expeditions, this isn't any ordinary torch. Its special **red LED beam** of light is designed to preserve your night vision, so you can easily read maps and get up close to nocturnal creatures as you explore outside. Great!

For more great educational gifts and gadgets, head to [learningresources.co.uk](http://learningresources.co.uk)

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## OUR FRAGILE EARTH

1 A CAVE BENEATH MEXICO'S YUCATAN RAIN FOREST HAS A WATER-FILLED "SINKHOLE" WHERE YOU CAN GO SWIMMING.

2 A PRICK FROM THE TOXIC GYMIE-GYMIE PLANT IN AUSTRALIAN AND INDOONESIAN RAIN FORESTS CAN STING FOR MONTHS.

3 GOLIATH BEETLES from Africa's rain forests CAN WEIGH nearly as much as a STICK OF BUTTER.

4 In Central American forests, rival STRAWBERRY POISON OAK FROGS might wrestle for up to 20 MINUTES.

16 FACTS ABOUT THE

5 The wingspan of the blue morpho butterfly from Central and South American rain forests is six inches (15.2 cm) wide.

6 THE AMAZON RAIN FOREST IN SOUTH AMERICA IS NEARLY AS BIG AS THE CONTIGUOUS UNITED STATES.

7 IT CAN TAKE TEN MINUTES FOR A FALLING BALLOON TO TRAVEL FROM A RAIN FOREST'S THICK CANOPY TO ITS FLOOR.

8 WHEN PANGOLINS—SCALY MAMMALS FROM AFRICAN AND ASIAN RAIN FORESTS—CURL UP, THEY RESEMBLE PINECONES.

9 A LAKE inside a rain forest on the Caribbean island of Dominica SIZZLES AT AROUND 190° F (88°C).

## GOING GREEN

10 India's Jeypore-Dehing forest is home to seven wild cat species, the most ever recorded in a single area.

11 KINKAJOUS, WHICH LIVE IN CENTRAL AND SOUTH AMERICAN RAIN FORESTS, LIKE TO LICK HONEY FROM BEEHIVES.

12 Latin American forests are home to black howler monkeys, whose calls can be heard three miles (4.8 km) away.

RAIN FOREST

13 FOUND IN AUSTRALIAN RAIN FORESTS, THE RED-LEGGED PADLOPER REPTILE SLEEPS ON ITS BACK WHILE SLEEPING.

14 One ritual of the Satem-Mende tribe in the Amazon rain forest involves pulling on gloves filled with stinging ants.

15 Tropical rain forests have RED SOIL because of high levels of IRON and ALUMINUM.

16 THE RHINOCEROS HORNBILL, ENDemic to Southeast Asian forests, has a hornlike structure on its head that LOOKS LIKE AN EXTRA BEAK.

## ART AND ARCHITECTURE

## World's Wackiest HOUSES

Check out these not-so-humble abodes from around the globe.

Your house is a place to kick back and get cozy. But what if it also had 27 floors, a replica of King Tut's tomb chamber, or an indoor garden? You could find yourself at home in some of the coolest dwellings from around the world.

## SEA CREATURE SHACK

Naucalpan, Mexico

Here's what it'd be like to dwell in a shell. Architect Javier Senosain designed this home to look like a real shelled sea creature called the nautilus. The house has curved rooms and looping hallways, plus a large front window with multicolored glass. There's even an indoor garden. The center of the house holds a circular TV room lined with soft couches. If you lived here, you'd never want to come out of your shell.

Nearly 30,000 registered theadologists are spread across Mexico.

## CULTURE CONNECTION

## HOBBIT HOME

Pembrokeshire, Wales  
Not all hobbit houses are located in mythical Middle Earth. Simon Dale constructed a family home that looks as if it came straight from The Lord of the Rings movies. The grass-covered dwelling was made from scrap wood, twigs, tree limbs, and plaster. Inside, floor-to-ceiling tree trunks hold up the roof. Dale built the home in four months with mainly a hammer, chain saw, and chisel—no wizards necessary.

Miles is said to have more castles per square mile than any other European country.

## TOWER POWER

Mumbai, India

For a billionaire looking for new digs, the sky's the limit. One wealthy businessman even had a 27-story skyscraper built as a private home for his family of five. The tower—which supposedly cost one billion dollars—boasts a spa, bathroom, movie theater, and yoga studio. Literally living the high life, comes at a price, though. The building's first electric bill reportedly totaled \$15,000!

Some 437 languages are spoken in India.

## ROUND RESIDENCE

Sao Paulo, Brazil

Sculpted from cement and iron by Edouardo Loupa, the 30-foot (9.1-m)-tall house known as the Sphere has three stories and a sleek interior. Instead of a staircase, levels are linked by a winding ramp. For outdoor fun, you can grab onto a rope swing attached to the exterior and go flying around the orb. Loupa hopes to create neighborhoods of stacked Sphere houses as a way to save space in his jam-packed city.

Brazil's soccer team has won five World Cups—that's more than any other nation.

NATIONAL  
GEOGRAPHIC  
KIDSAVAILABLE WHEREVER BOOKS ARE SOLD • More FUN at [ngkids.co.uk](http://ngkids.co.uk)



**Bet you  
didn't  
KNOW!**

## 5 facts about MUMMIES

**1** It took about **8 hours** to bandage the lead actor in the 1942 movie *The Mummy's Tomb*.

**2** Mummies have been found on **every continent** – including **Antarctica**.

**3** A 2,400-year-old mummy from **Siberia** had fur and wool stuffed in her **eye sockets**.

**4** A mummy in **Italy** from 1920 is so **well preserved** she looks as if she's **sleeping**.

**5** The mummy of **Egyptian pharaoh Ramesses the Great** was **issued a passport** to travel to France.



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Visit places like **Egypt**, where you'll unearth ancient treasure and learn loads about pyramids. What do you already know about this country? Take our quiz to find out...



### ✠ EGYPT QUIZ! ✠

**1** What's the Ancient Egyptian writing system called?

a) Hieroglyphics b) Emojic c) Latin

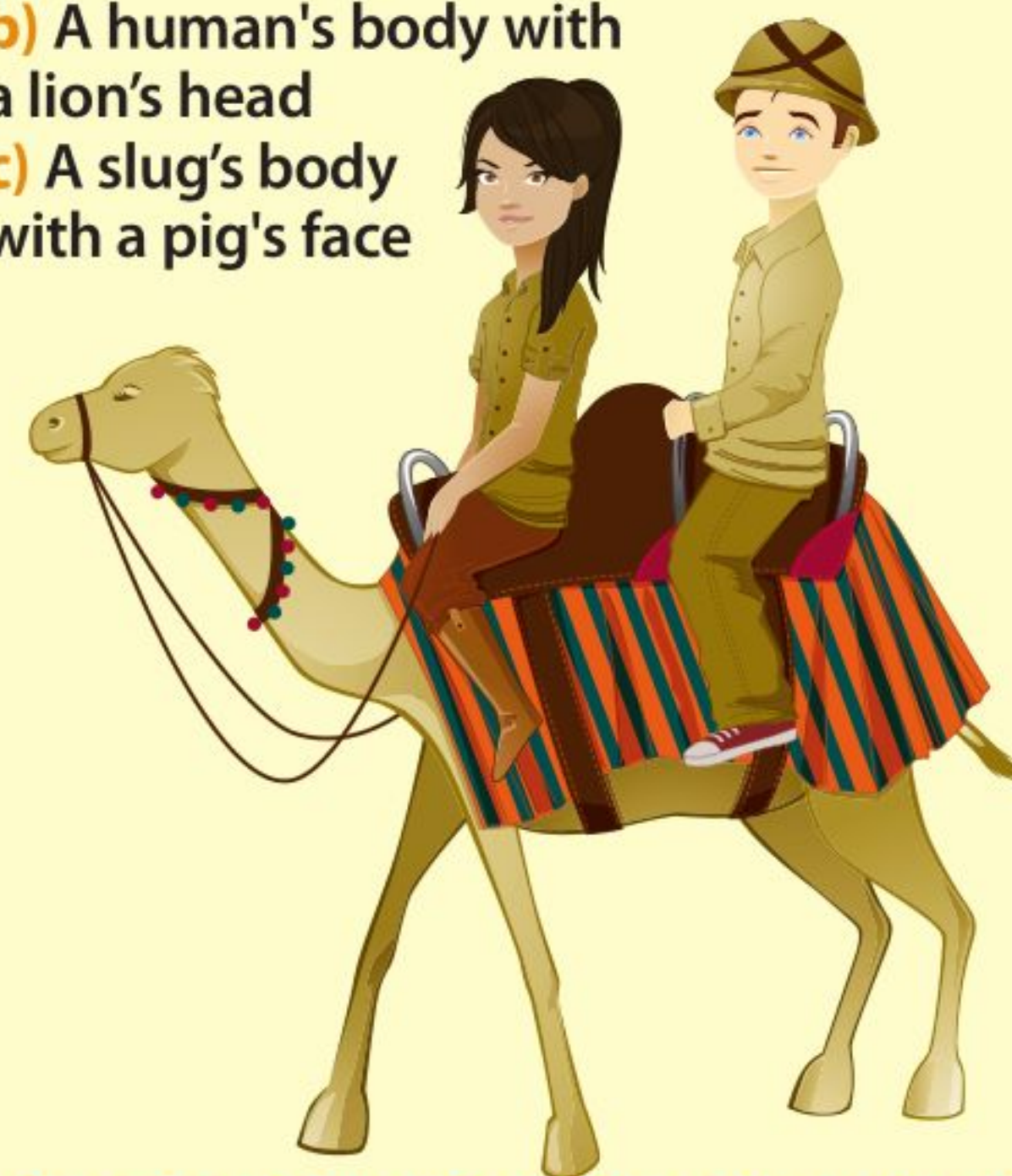
**2** Unscramble these letters to reveal the name of an animal found in Egypt... LEAMC

**3** Which of the following people was a famous pharaoh?

a) Napoleon b) Elizabeth I c) Tutankhamun

**4** The Great Sphinx of Giza is a huge monument in Egypt. But what does this mythical creature look like?

a) A lion's body with a human head  
b) A human's body with a lion's head  
c) A slug's body with a pig's face



For more information zoom over to [littlepassports.com](http://littlepassports.com)

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Answers: 1) a, 2) Camel, 3) c, 4) a.



# CREATURE CLOSE-UPS!

[illegible]

52 NATIONAL GEOGRAPHIC KIDS



# What in the WORLD?

## WILD DESIGN

These photographs show close-up views of different animal patterns. Unscramble the letters to identify the animal in each picture. Use the highlighted letters to help answer the question below.

ANSWERS ON PAGE 56



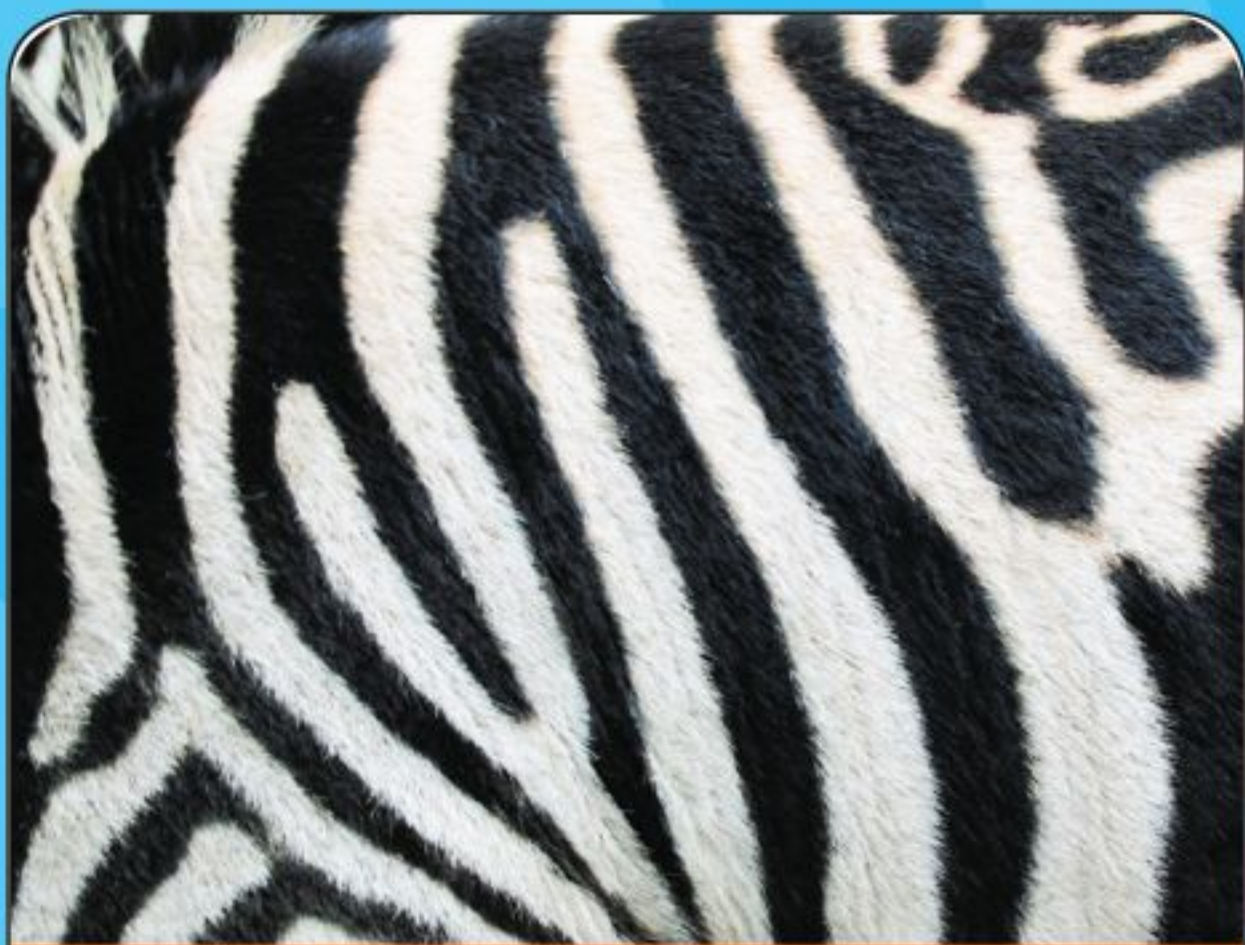
A G E F R I F



K O E C C P A



A M A I T D N L A



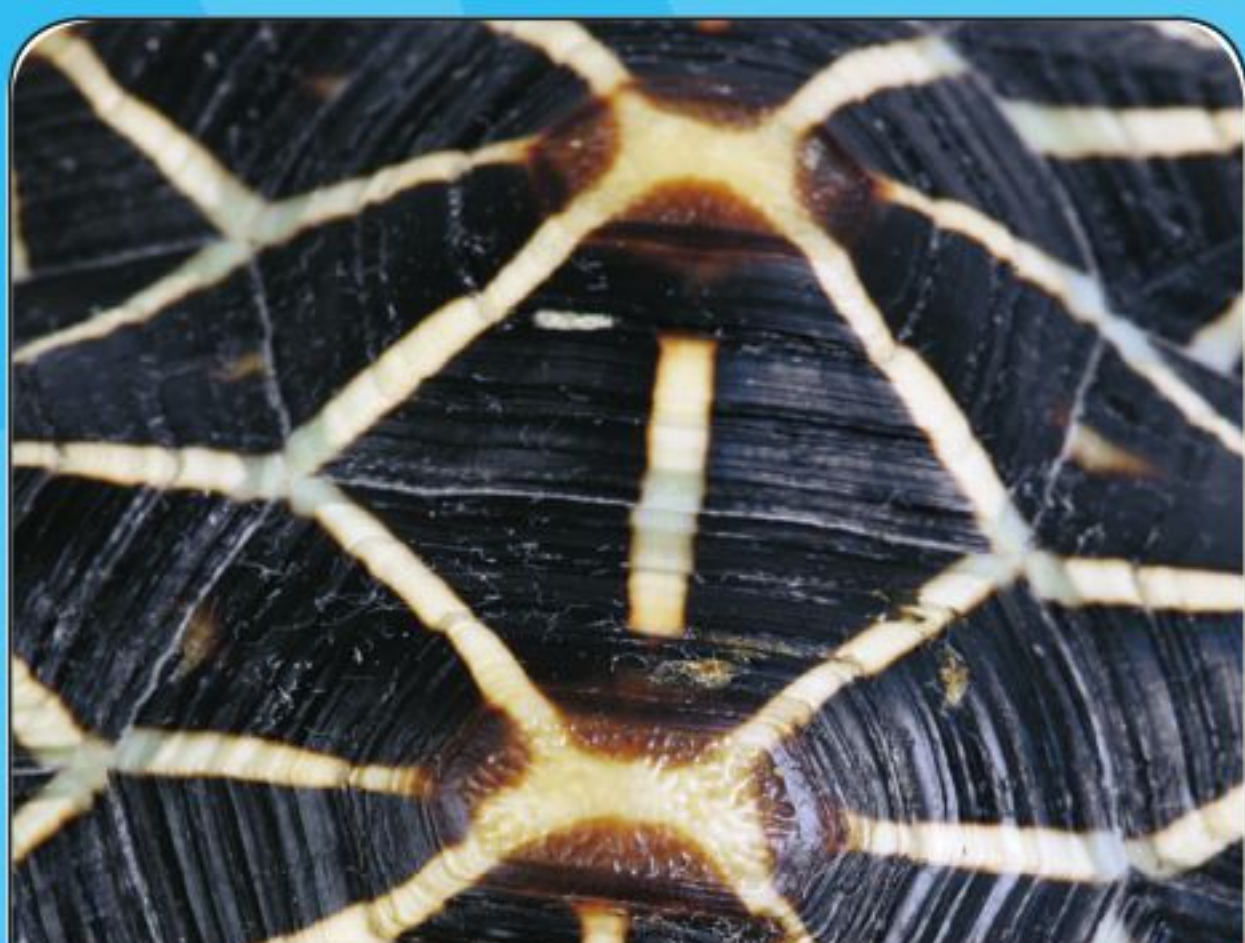
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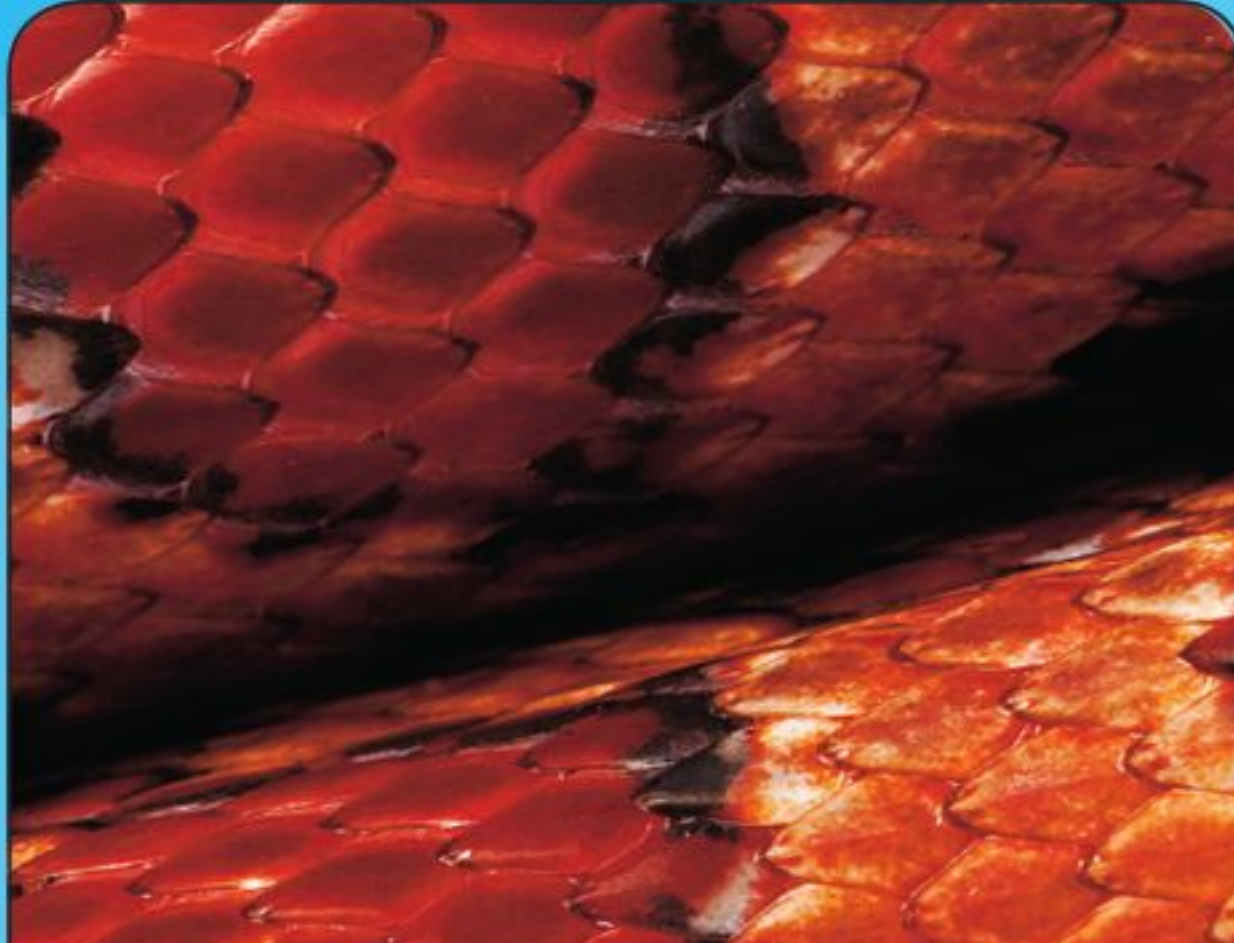
G I E R T



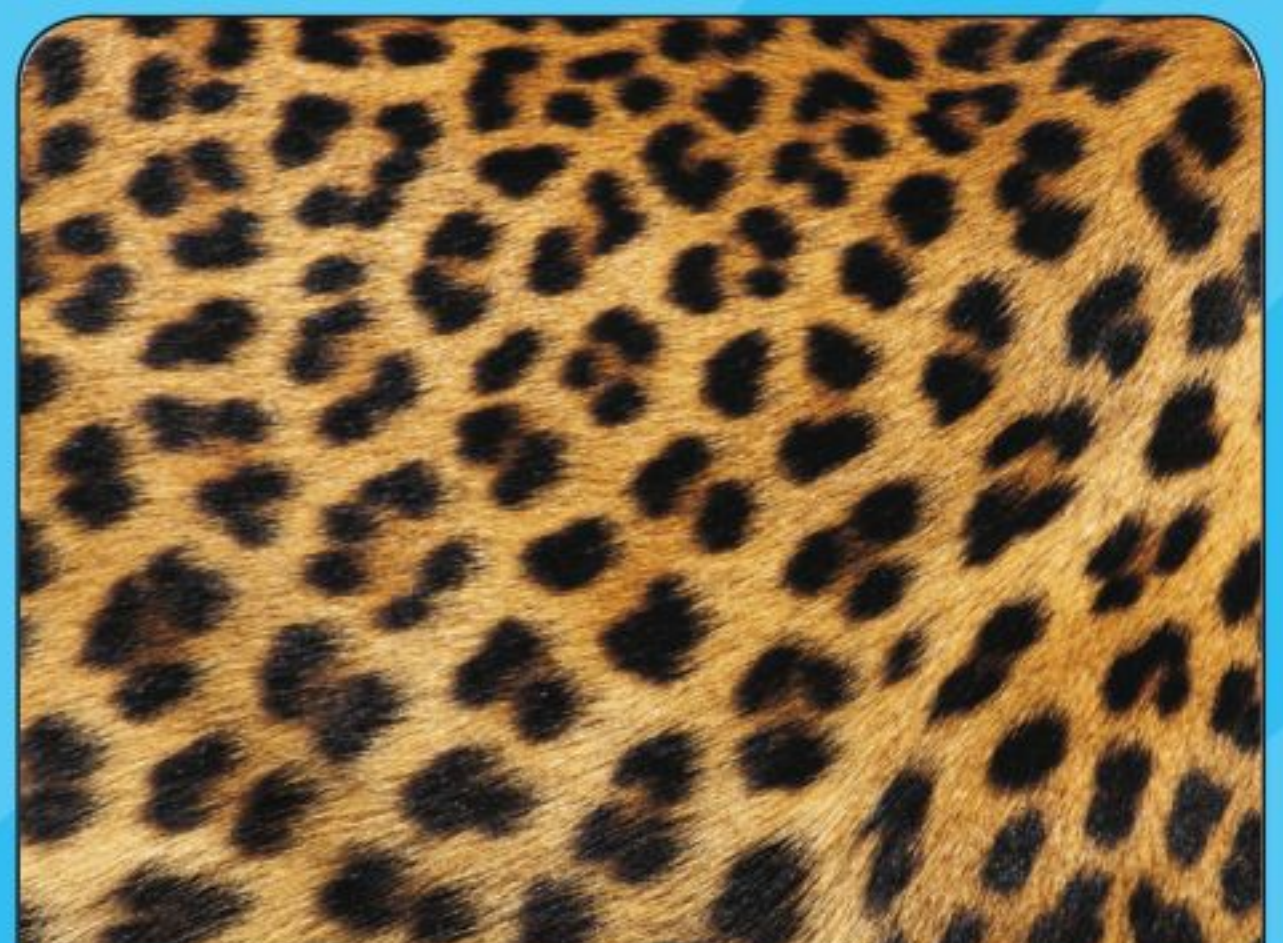
H L S F N O I I



S O R I O T T E



N Y T P O H



R D O L E A P

**QUESTION:** What do some animals use to hide themselves from predators and prey?

**ANSWER:** \_ A \_ \_ \_ U \_ \_ \_ \_ \_

Top row (left to right): © Karin Van Ijzendoorn / Dreamstime; © Vladislav Turchenko / Dreamstime; © Andreas Gradin / Dreamstime. Middle row (left to right): © Alexey Petrunin / Dreamstime; © Yairleibovich / Dreamstime; © Chai117 / Dreamstime. Bottom row (left to right): © Dannyphoto80 / Dreamstime; © Isselee / Dreamstime; © Lubos Chlubny / Dreamstime.

gutans sleep? **A** In ape-ri-cots! **Q** What's white, sweet, fluffy and lives in the trees? **A** A meringue-utan!



# Fun stuff!

## Make it

# FIREWORK PAINTINGS

Create some spectacular 'firework pictures' using an old salad spinner!

### What you'll need

- Salad spinner (if you haven't got one in the back of the cupboard, you can pick one up from hardware stores or supermarkets for about £4)
- Black and white card
- Scissors
- Blu-Tack
- Poster paint
- Glitter paint (optional)

### Start here!

**1** Draw around the base of your salad spinner basket onto the card and cut out the circles. These should slot nicely into the bottom of the basket.

**2** Push a bit of Blu-Tack in the centre of the basket, then stick a circle of card onto it.

Make sure you get permission to use the salad spinner, because it WILL get covered in paint!

**3** Squirt some blobs of paint onto the card circle.

**4** Put the lid on firmly and spin! Then lift the lid to reveal your firework painting. Wow! You might want to spin for longer if the paint hasn't spread out much. Go on, give it a whirl!

**5** Add more layers and colours to your picture by repeating steps 3 & 4. Cool!

Experiment with different colour combinations, spin speeds and quantities of paint!

Q What's the first thing an orangutan learns in school? A Its ape-b-c's! Q




**TOP TIP**  
Hang your  
firework  
pictures up  
to decorate  
a bonfire  
party!




## BE A HEDGEHOG HERO!


Before your firework festivities begin,  
spare a thought for the humble hedgehog.

According to the **British Hedgehog Preservation Society**, hedgehogs are in **huge decline** in the UK. In the 1950s, there were 30 million of these spiky critters in the UK. Now there are fewer than a million remaining and on **Bonfire Night** they're at risk. Here's what you can do to help...

 Piles of bonfire material look like **posh hotels** to hedgehogs in search of a place to **hibernate**. So, if possible, have a word with an adult and ask them to delay building your bonfire until the day they're planning to light it.

 Check for **hibernating hedgehogs** before setting your pile of wood on fire. Use a **broom handle** to lift sections of the bonfire – don't use a garden spade or fork as this can injure the animals. Have a torch handy to **look** for signs of life and **listen** out for hedgehogs hissing, too.

 If you do find hedgehogs inside, place them in a **high-sided cardboard box** with lots of **newspaper** and **air holes** in the lid. Wear **garden gloves** to protect your hands and to stop **your scent** being transferred onto the animal. Place the box in a shed or garage **well away** from the party (fireworks can terrify them) and offer the hedgehog **meaty cat** or **dog food** and fresh water. Yum!

 Light the bonfire from **one side** only – that way, any animal that is still hiding inside won't be surrounded by flames immediately and has a chance to **escape**.

Find out more at [hedgehogstreet.org](http://hedgehogstreet.org)

Photos: Valerie Rowles. Thanks to Khadijah. Hedgehog © Getty Images UK

 NATIONAL  
GEOGRAPHIC  
KIDS

Send us  
your entries  
by 18 November 2015

## COMPETITION ENTRY COUPON

Just tick the blue box by any competitions you want to enter!

### PAGE 9 TIMMY FAILURE!

**Timmy Failure goodies**

Don't forget to send in your picture.

☐

### PAGE 10-11 WHAT'S UP?!

**Ghosthunters DVD**

Unscramble these letters to reveal another word for 'ghost'...

KOPSO

☐

**Animalium books**

Unscramble these letters to reveal a type of sea creature...

LEFILJSHY

☐

**Hook's Daughter and The Wild Beyond books**

Which of these is a whale?

Humpback ☐ Stickleback ☐ Flatback ☐

☐

### PAGE 18 ORANGUTANS!

**Tons of wild goodies**

Don't forget to send in your story or poem!

☐

### PAGE 45 GO BANANAS

**Bananagrams**

The answer from page 45 is...

☐

### PAGE 46-47 PRIZE PLANET!

**Welsh holiday**

Which of these is NOT a place in South Wales?

Swansea ☐ Bridgend ☐ Somerset ☐

**Heelys trainers**

Which of the following is NOT another word for a type of trainers?

Sneakers ☐ Plimsoles ☐ Stompers ☐

**CLIP IT kits**

Can you unscramble these letters to reveal something that comes in a bottle with a screw cap?

ZZIFY OPP

☐
☐
☐

**Scooby-Doo! and Kiss: Rock and Roll Mystery!**

What type of dog is Scooby Doo?

Great Dane ☐ Cocker Spaniel ☐ Dalmation ☐

**Rubik's puzzles**

How many sides does a cube have?

Five ☐ Six ☐ Seven ☐

☐
☐

Winners will be chosen  
at random from correct  
entries. GOOD LUCK!

Now turn over and answer  
some easy questions!

ngkids.co.uk 55

What do orangutans wear when they're cooking? **A** Ape-rons!



# OVER TO YOU!

Your chance to tell us what you think

## ● What made you buy NG KiDS this month?

- ☐ If you subscribe, please tick this box
- ☐ **Awesome Orangutans!** ☐ **Free Door Hanger!**
- ☐ **Fancy a Cuppa?** ☐ **216 Prizes Inside!**
- ☐ **Enter Our Cool New Class Competition!**

## ● What's the best thing in this issue of NG KiDS?

## ● What's your least-favourite thing in this issue?

## ● What musical instrument do you play?

## ● What's your favourite period of history?

## ● Now tell us why...

## ● What's the best thing about winter?

## ● Now tell us why...

(You must attach a photo of yourself for a chance of appearing on the Junior Reporter pages!)

## ● WRITE TO US!

Do YOU want to appear on our Junior Reporter pages? Is there something you're passionate about? Then attach a letter about it to this form – or email it to us at [kids@ngkids.co.uk](mailto:kids@ngkids.co.uk) – and we could print it in NG KiDS!

## YOUR DETAILS!

Name ..... Date of birth .....

Address .....

Postcode ..... Telephone .....

Email .....

If you are under the age of 12, please ask a parent or guardian to complete this section:

Parent/guardian's name .....

Parent/guardian's signature .....

I acknowledge my child's participation in entering these competitions and/or the reader survey.

**Cut along the dotted line and send this entry coupon – and a photo of yourself as well, if you like! – to: NG KiDS Competitions November issue, Unit 1.04 Clerkenwell Workshops, 31 Clerkenwell Close, London EC1R 0AT**  
**Hurry – the closing date for entries is 18 November 2015!**

NATIONAL GEOGRAPHIC KIDS competitions are open to residents of the UK, Eire and the Channel Islands, except employees of Creature Media Ltd, National Geographic Society, and their families, or any associated companies. NATIONAL GEOGRAPHIC KIDS will not share your personal details with third parties. Only one competition entry per person. Winners will be the first correct entries drawn after the closing dates. The editor's decision is final. Entrants to NATIONAL GEOGRAPHIC KIDS contests must be 16 or under. No purchase necessary. No responsibility can be taken for entries lost or damaged in transit. NATIONAL GEOGRAPHIC KIDS will not enter into any correspondence. Winners' names will be published at [ngkids.co.uk/prize-planet/winners](http://ngkids.co.uk/prize-planet/winners). Prizes subject to availability. No cash alternative for any prizes will be offered. The winner may be required to partake in media activity relating to the competition. NG KIDS may wish to contact readers in the future by post, phone or email. Please tick the box if you do NOT wish to be contacted ☐. For details of our privacy policy, please go to [ngkids.co.uk](http://ngkids.co.uk)

# Fun stuff!

## Answers

### SPOT THE DIFFERENCE! (page 10)



### CREATURE CLOSE-UPS! (page 52)

1. PANDA, 2. MOOSE, 3. BADGER, 4. RHINO, 5. PORCUPINE, 6. ORANGUTAN, 7. ROCKHOPPER PENGUIN, 8. LEMUR, 9. MANDRILL, 10. WALRUS, 11. SLOTH, 12. ANTEATER.

### WHAT IN THE WORLD? (page 53)

Top row: GIRAFFE, PEACOCK, DALMATIAN.

Middle row: ZEBRA, TIGER, LIONFISH.

Bottom row: TORTOISE, PYTHON, LEOPARD.

Bonus: CAMOUFLAGE.



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# In next month's NG KIDS...

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it!



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on a rhino  
trek! Join us  
on safari in  
Malawi, Africa.**

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blockbusters!  
We speak to the  
stars of this  
year's most  
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Who was  
this famous  
genius?**

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# Ripley's Believe It or Not!<sup>®</sup> LONDON



## PLAY-DOH CAR

In March 2011, to mark the UK launch of a new Chevrolet car, eight model makers handcrafted a life-sized replica of the vehicle out of Play-Doh modelling clay. Parked around the corner from NG KiDS' office in London, the massive model was made from 1.5 tonnes – or 10,000 pots! – of the putty!

## WALLY ON THE WEB

Fans of the *Where's Wally?* books can now seek him out on Google Earth! Inspired by a project run by UK-based artist Melanie Coles, pupils at SISA School in Antwerp, Belgium, have painted a giant version of the geeky character in their playground. Try going online to find him yourself!



Swedish motorcyclist Robert Gull can pull a wheelie at 200kmph on a **FROZEN LAKE**.

In 2013, Dmitri Galitzine travelled 6km from Gosport, Hampshire, to the Isle of Wight in a boat made from a 360kg **PUMPKIN**.

Back in 1901, 63-yr-old Annie Edson Taylor became the first person to survive going over **NIAGARA FALLS** in a barrel.

# OVER THE TOP



## CLIP CHAIN

Pupils at Eisenhower Junior High School in Utah, USA, have a habit of setting themselves amazing challenges. In March 2004, they created a 'Mega Chain' (below) that measured 35.68 km long and used 1,560,377 paper clips!



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LONDON

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A Texan man named Ron Wade has installed an exact replica of the US President's **OVAL OFFICE** in his home.





# THE ULTIMATE WORD GAME!

**Free**  
game app  
included!

## Original Alias

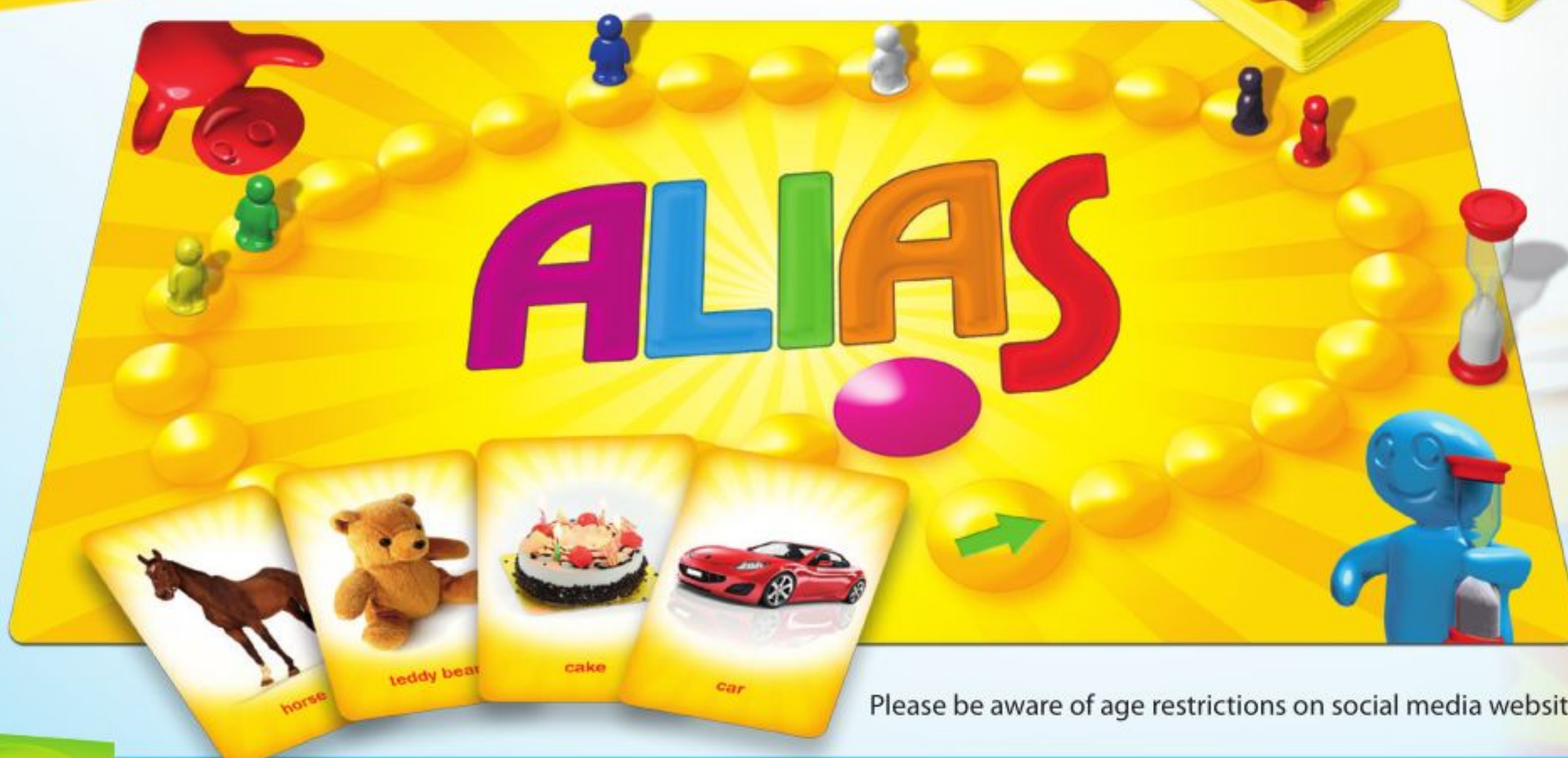
Alias is a fun word-explaining game that you play in teams of two or more people. Make your teammates guess the word you are explaining by giving them hints and tips, without saying the actual word. Sounds easy, but time is against you!

This fast, furious and fantastically fun family game is super popular around the world!



## Junior Alias

Junior Alias is played just like the Original version - only it has pictures on the cards instead of a list of words! This means that kids of all ages can take part and enjoy the thrill of the game! Explain the words without saying the actual word and race to victory!



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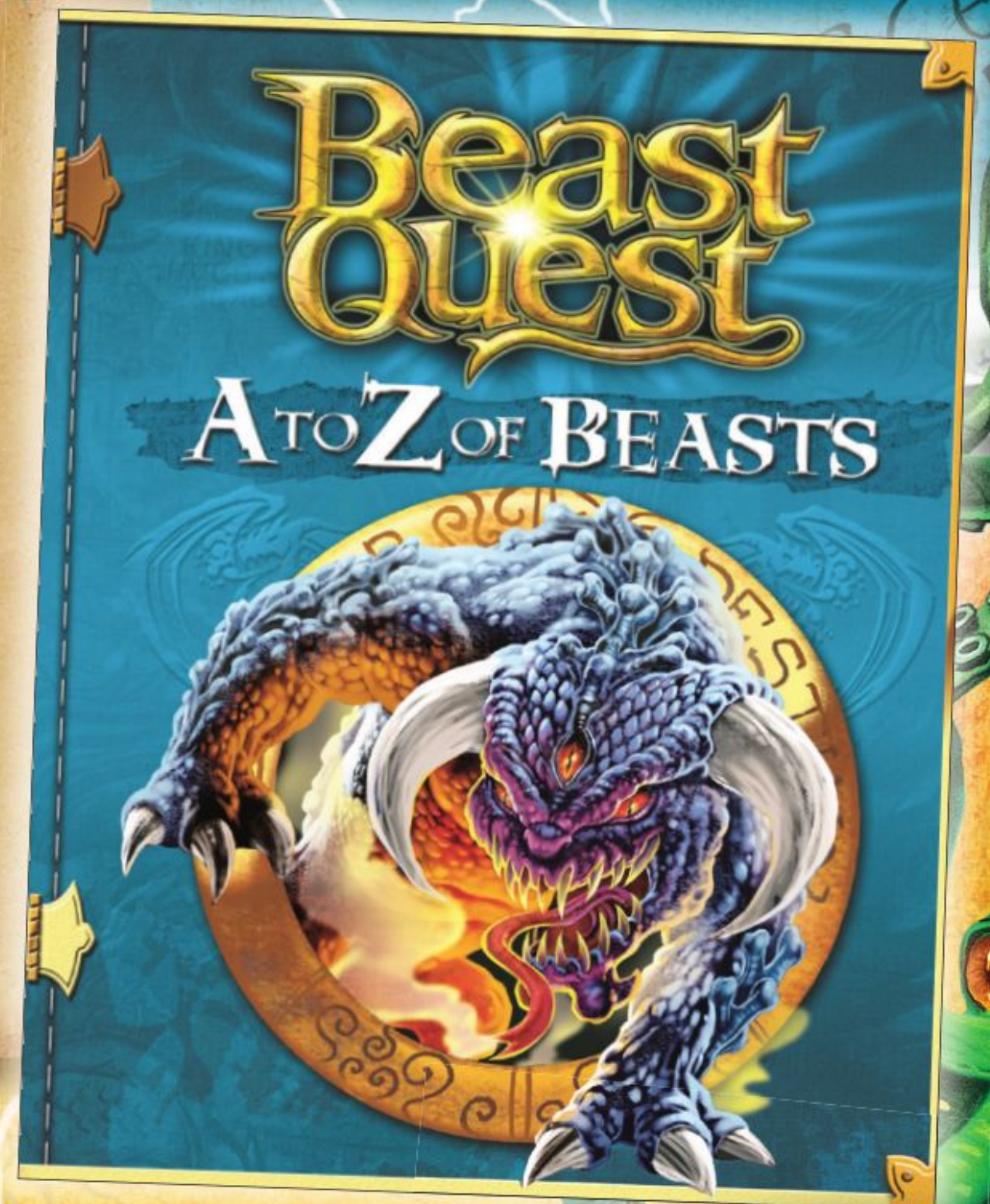
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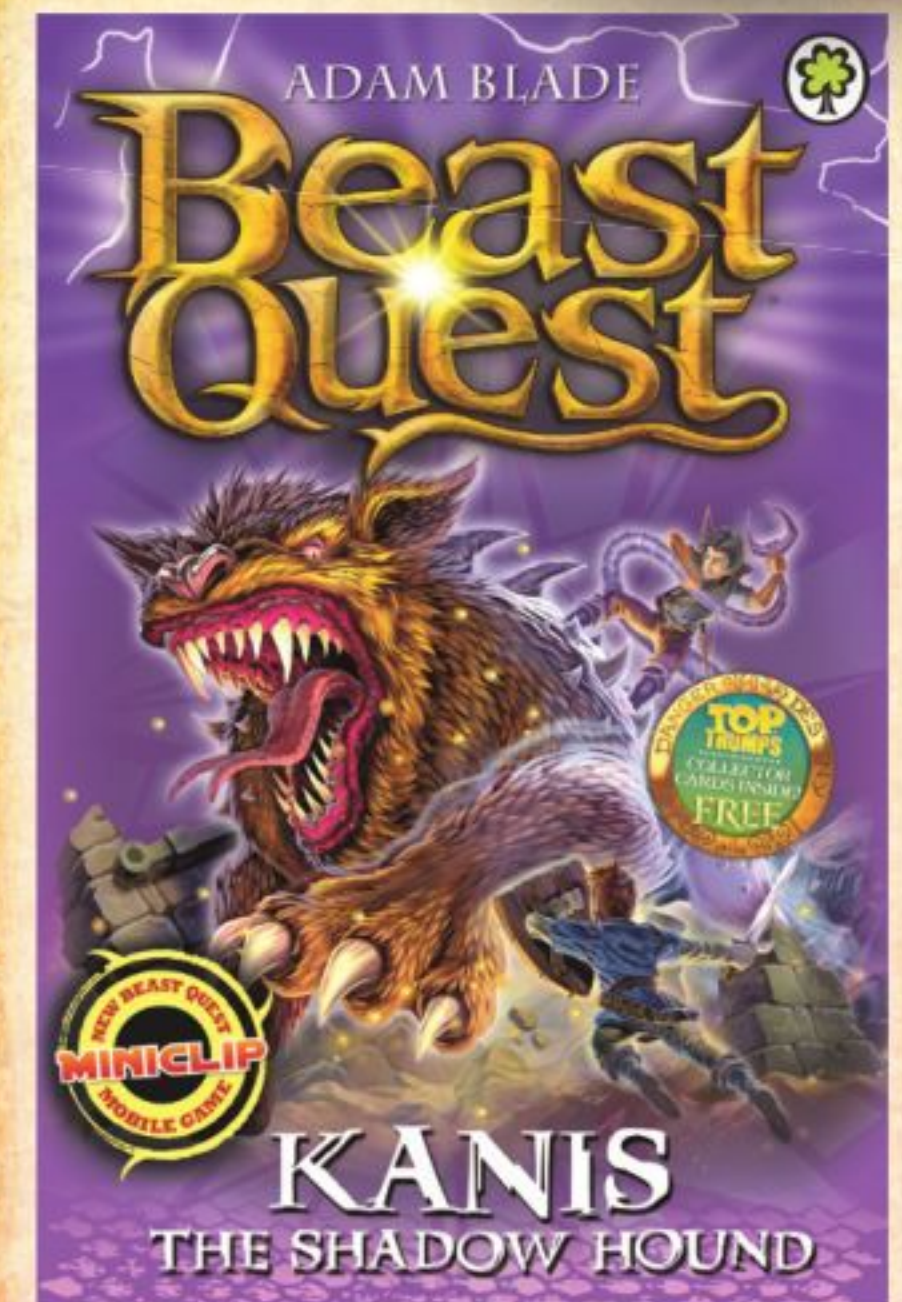
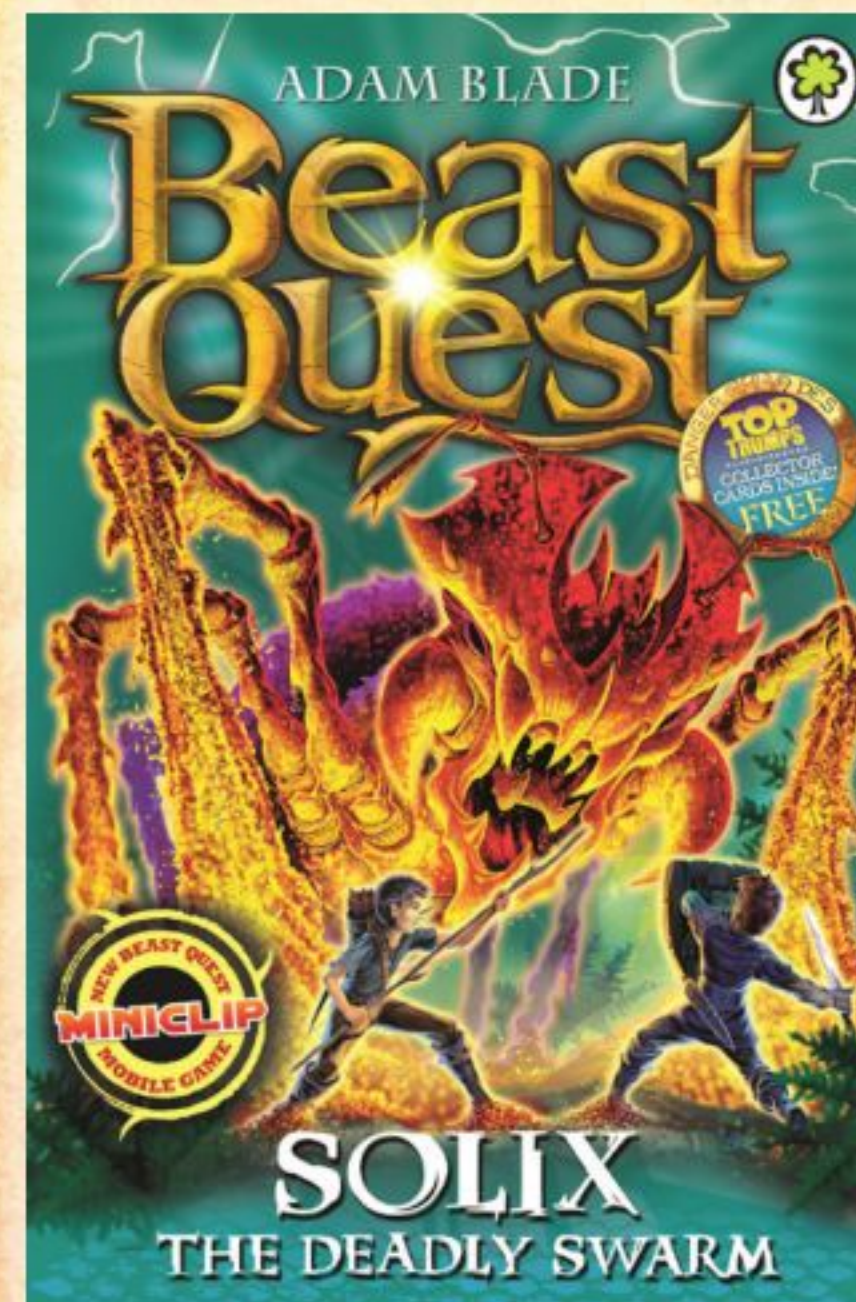
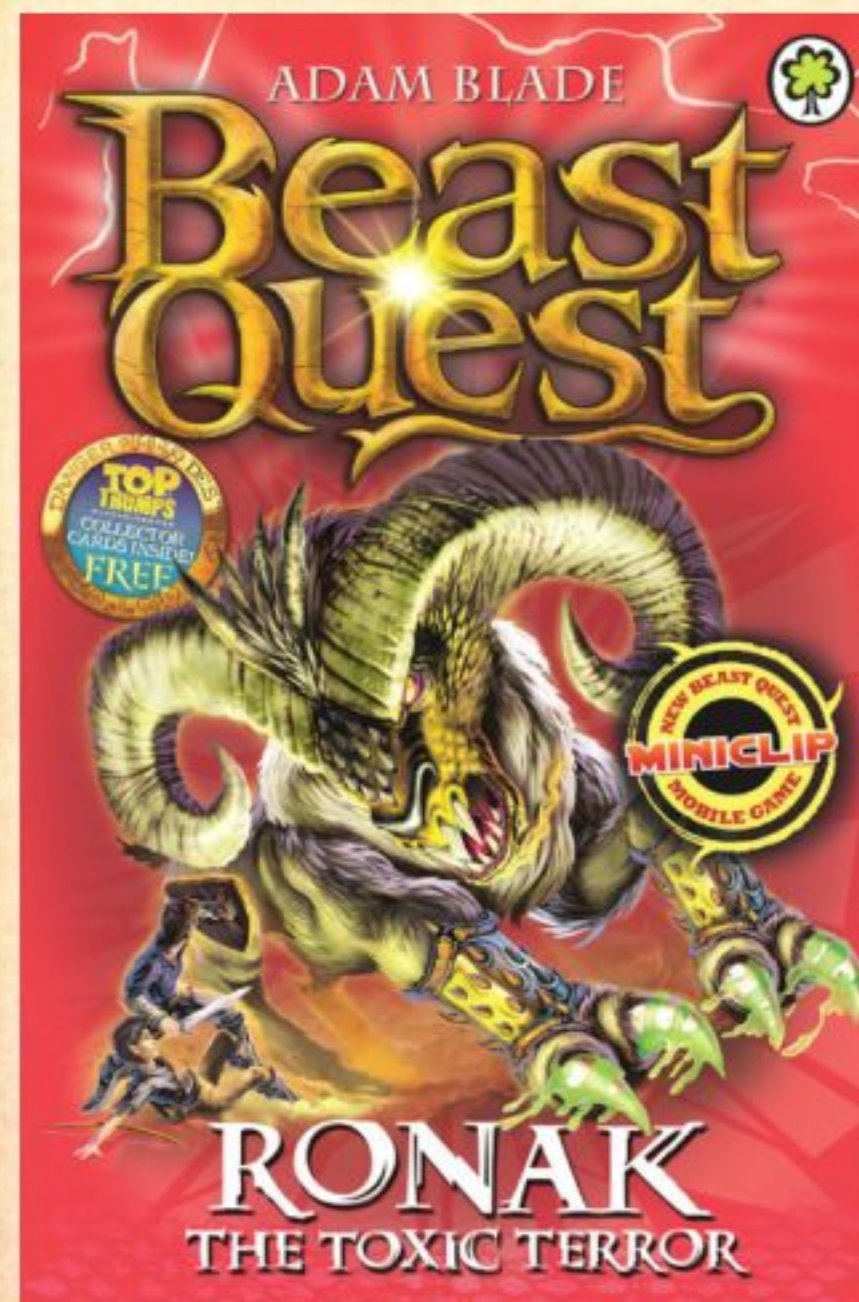
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